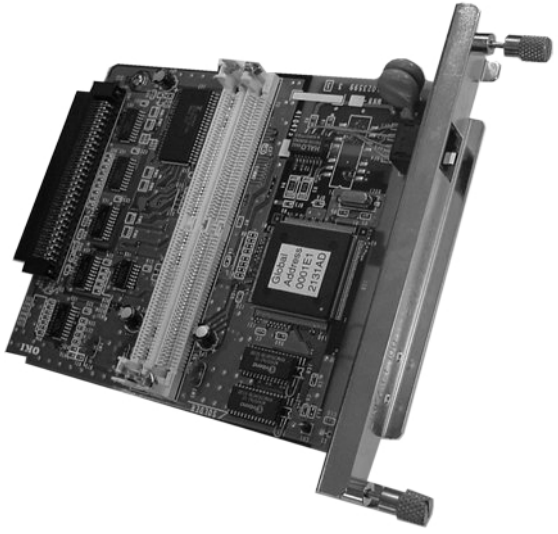
OKILAN *3100e* Network Card



User's Guide

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Preface

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

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EEC compatibility

This product complies with the requirements of the Council Directives 89/336/EEC (EMC) and 73/23/EEC (LVD), as amended where applicable, on the approximation of the laws of the member states relating to Electromagnetic Compatibility and Low Voltage.

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Chapter 1 - Introduction

Introduction

The OkiLAN 3100e Network Card enables Okipage 14i Printers to be used in an Ethernet network environment. With this network card installed, the Okipage 14i Printers can be connected to a network, enabling all network users to the share the use of these printers.

Supported environments

This network card allows the OKIPAGE 14i to be connected to a network and supports the following network environments:

- Windows NT 4.0; 2000; 95/98/Me
- NetWare 3.x; 4.x; 5
- SunOS 3.1.1 and higher
- Solaris 2.1 and higher
- HP UX9.x
- Other UNIX (in some cases, 100% operation not possible.)
- Macintosh OS System 7 and higher (excluding LocalTalk).

Network card functions

This network card supports the following functions:

- Queue Server Mode and Remote Printer Mode in NetWare 3.x.
- Remote Printer Mode and Queue Server Mode when the NetWare 4.x Bindery is connected.
- Remote Printer Mode and Queue Server Mode when the NetWare 4.x NDS is connected.
- Remote Printer Mode and Queue Server Mode when the NetWare 5(on IPX Protocol) Bindery is connected.
- Remote Printer Mode and Queue Server Mode when the NetWare 5 (on IPX Protocol) NDS is connected.
- Network card setup by Telnet and printer status display.
- Receiving of print data by FTP and displaying print jobs.

Note: Multiple file simultaneous transmission by general FTP utility is not supported.

- Receiving print data by LPR and displaying jobs by LPQ.

Note: Banner page printing is not supported.

- Network card, printer setup and printer status display using a Web browser.
- Windows95/98 Peer to Peer printing (using dedicated LPR utility or standard network service provided by OS).
- Network card and printer setup and printer status display using SNMP tool.
- IP address auto assignment by DHCP server.
- Printing from EtherTalk.

Utilities

This network card provides utility programs so that printer operations can be carried out over a network. For the information on these utility programs, please refer to the on-line help for each of the following utilities:

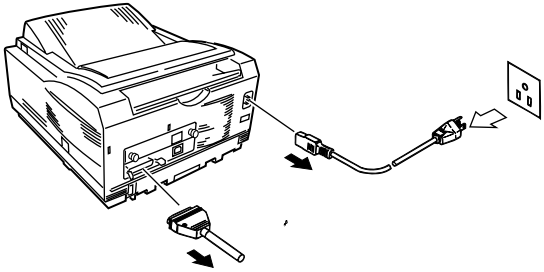
- OkiView32 for Windows 95/98/Me/NT4.0/2000.
- OkiLPR for Windows 95/98/Me/NT4.0/2000.

Chapter 2 - Installation

Printer installation

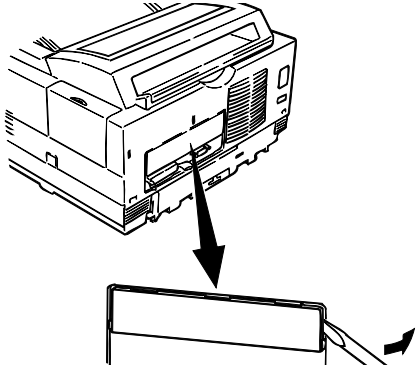
CAUTION:
The network card can be affected by static electricity. Do not remove it from the antistatic bag until you are ready to install it.

1. Turn the printer off and disconnect the power supply cable from the printer.



2. Disconnect any interface cables from the printer.

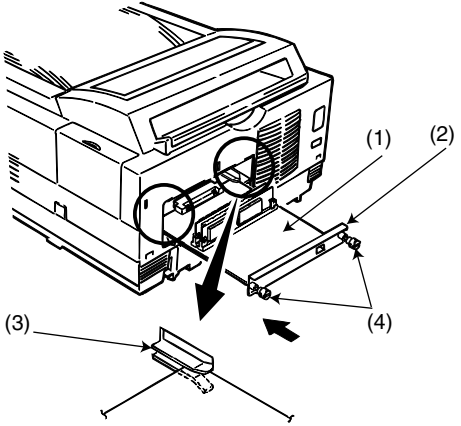
3. Remove the blind plate from the rear panel of the printer after separating it from the plastic securing tabs.



4. Hold the network card (1) by the metal mount (2) and insert it into the guides (3) on the printer.

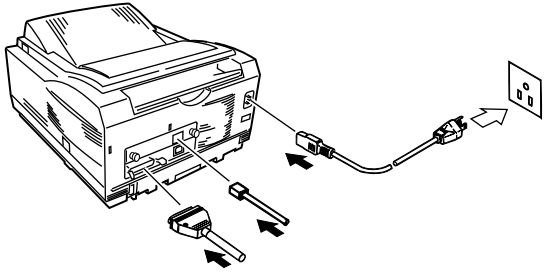
5. Make sure that the expansion slots are upward and the connector is toward the printer.

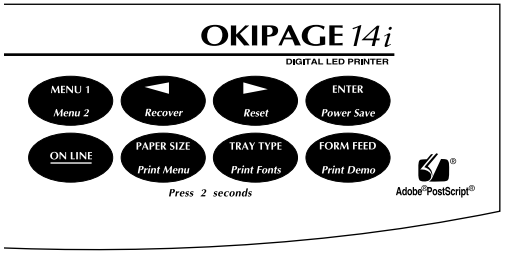
6. Push the network card (1) firmly but carefully into the printer until the metal mount (2) comes



into contact with the printer housing. Secure with two screws (4).

7. Connect the power supply and interface cables.
8. Turn the printer on and take the printer off-line by pressing ON-LINE button.
9. Press MENU1 button for less than two second.
10. When PERSONALITY appears in message window, continue pressing MENU1 button until HOST I/F appears in the message window.
11. Press ENTER button.
12. Press MENU1 button twice.





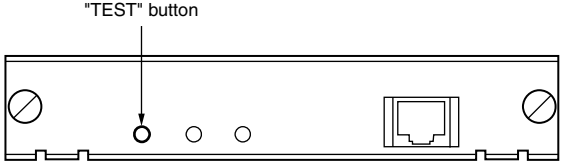
13. Press either left arrow or right arrow and ENTER button to change window message to NETWORK ENABLE*.
14. If the message NETWORK does not appear in message window, turn printer off and re-check installation of the network card.

Resetting the Network card

Turn the printer power **OFF,** then turn it **ON** again, pressing and holding down the **TEST** button on the network card until ON-LINE appears in the message window.

After about 10 seconds, the printer will re-boot automatically.

When the printer goes back on line, the Network card has been reset to the factory default settings.



Printing the Network card settings

Press the **TEST** button for at least 1 second when the printer is on line. The Network cards' settings will be printed.

Chapter 3 - Network Setup

Network client - server correspondence

The network card supports the following network environments:

Server	Client	Printer Admin Tool
Windows NT Server 3.51/4.0 Windows 2000	Windows NT Workstation Windows 95/98	General Web Browsers Telnet OkiView32
NetWare 3.x (R-Printer Mode) (Q-Server Mode)	MS-DOS Windows95/98 Windows NT Workstation	PCONSOLE OkiView32
NetWare 4.x (Bindery R-Printer Mode) (Bindery Q-Server Mode) (NDS R-Printer Mode) (NDS Q-Server Mode)	MS-DOS Windows95/98 Windows NT Workstation	PCONSOLE NetWare Administrator OkiView32
NetWare 5 (Bindery R-Printer Mode) (Bindery Q-Server Mode) (NDS R-Printer Mode) (NDS Q-Server Mode)	MS-DOS Windows95/98 Windows NT Workstation	NetWare Administrator OkiView32
UNIX-based Workstation	UNIX-based Workstation	Telnet
Macintosh	Macintosh	None
Windows95/98 (Peer to Peer)	Windows95/98 (Peer to Peer)	General Web browsers Telnet OkiView32

Setting up servers

Windows NT4.0 server

Log on to Windows NT with the administrator account or an account with administrative privileges.

Installing as an LPR printer

1. Open the [Control Panel] and double-click on [Network].
2. Click on [Add...] button on [Services] screen to add [Microsoft TCP/IP printing].
3. Click on [OK] button and end setting up of [Network].
4. Double-click on [Printers], then double-click on [Add Printer].
5. [Add Printer Wizard] is displayed. For printer management, select [My computer] and click on [Next>].
6. On the port selection screen, click on [Add port.].
7. Select [LPR Port] on [Printer Ports] screen and click on [New Port...].
8. On [Add LPR compatible printer] screen, enter IP address to be assigned to this network card in the text box [Name or address of server providing lpd:].

Note: For the IP address setup when DHCP Server is used, please refer to "IP address setting in DHCP server environment" on page 29.

9. Enter an appropriate name so that this printer can be distinguished from others on the network in the text box [Name of printer or print queue on that server:] and click on [OK].
10. The address and the printer name are added to [Available ports:] and the check box(es) is checked.
11. Click on [Next>].
12. Click on [Have Disk...].
13. Insert the printer driver CD-ROM into the CD drive and click on [OK].
14. Follow the on-screen instructions and install the printer driver.

Note: By default, Windows will install the English printer driver. To install a localised printer driver in your language, browse to D:\DRIVERS\NT40\Language on the CD-

ROM and run setup.exe from that directory (where D:\ is the drive letter of your CD-ROM drive; Language is your language).

15. When the printer driver is installed, right-click on the installed printer and select [Properties].
16. Click on [Print Test Page] button and the setup is complete when the test pages are printed.

Installing as a NetBEUI printer

Setting up OS network settings

1. Open the [Control Panel] and double-click on [Network].
2. Click on [Add...] button on [Protocols] screen to add [NetBEUI protocol].
3. Click on [OK] button and end setting up of [Network].

Setting up printer network settings

The workgroup name and host name must be set to the printer. These names must be the same as those used in “Chapter 4 - Administrating Network Printers” on page 39.

With Network Card firmware Ver. 1.06. The workgroup name must be same as the name of the workgroup to which the printer belongs.

With Network Card firmware Ver. 1.10. Default workgroup and Host name can be used.

Installing the printer driver

1. Double-click on [Printers], then double-click on [Add Printer].
2. [Add Printer Wizard] is displayed. For printer management, select [Network print server] and click on [Next>].
3. Enter an appropriate name so that this printer can be distinguished from others on the network in the text box [Name of printer or print queue on that server:] and click on [OK].
4. Enter the workgroup name that has been used for the printer network settings in [Printer:] text box and click on [OK].
5. Insert the printer driver CD-ROM into the CD drive and click on [OK].
6. Follow the on-screen instructions and install the printer driver.

Note: By default, Windows will install the English printer driver. To install a localised printer driver in your language, browse to D:\DRIVERS\NT40\Language on the CD-ROM and run setup.exe from that directory (where D:\ is the drive letter of your CD-ROM drive; Language is your language).

7. When the printer driver is installed, right-click on the installed printer and select [Properties].
8. Click on [Print Test Page] button and the setup is complete when the test pages are printed.

Limitations

The NetBEUI Printer has following limitations.

1. The maximum number of hosts which can access the printer at any one time is four. If more than four hosts try to access the printer, the printer responds with error and an error message is displayed on the screen.
2. If the printer stays in the off-line state for more than 8 minutes, host(s) sending the print job generate(s) a timeout and the job is terminated.
3. (Firmware Ver. 1.06 only) The printer does not support Master Browser function. At least one PC, which acts as the Master Browser, should exist and the workgroup name of the printer should match to one of workgroup names existing on the network, otherwise an error is displayed on the screen when the host tries to communicate with the printer.

Printer sharing

The installed printer can be shared by other client PCs. Please use the following instruction to share the printer.

1. Open the [Control Panel] and double-click on [Printers].
2. Right-click the installed printer and select [Sharing…].
3. Select [Shared] and enter a suitable printer name in the [Share Name:] text box.
4. Click on [OK] and end setting up.

Windows 2000 server

Log on to the Windows 2000 Server from the administrator account or an account with administrative privileges.

Installing as LPR printer

1. Open the [Control Panel] and double-click on [Network and Dial-up connections].
2. Double-click on [Local Area Connection] and click on [Properties].
3. Select [Internet Protocol (TCP/IP)] on [Local Area Connection Properties] screen and click on [Properties].
4. Enter [IP address], [Subnet mask], [Default gateway] and [DNS server address], then click on [OK].

Note: For the IP address setup when DHCP Server is used, please refer to "IP address setting in DHCP server environment" on page 29.

5. Close [Local Area Connection] screen.
6. Double-click on [Printers], then double-click on [Add Printer].
7. [Add Printer Wizard] is displayed. For printer management, select [Local printer] and click on [Next>].
8. On the port selection screen, select [Create a new port:] and [Standard TCP/IP Port], then click on [Next>].
9. On [Add Standard TCP/IP Printer Port Wizard] screen, select [Okidata Network Printer] in [Standard] printer as [Device Type], then click on [Next>].
10. On [Add Printer Wizard] screen, click on [Have Disk...].
11. Insert the printer driver CD-ROM into the CD drive and click on [OK].
12. Follow the on-screen instructions and install the printer driver.

Note: By default, Windows will install the English printer driver. To install a localised printer driver in your language, browse to D:\DRIVERS\WIN2000\Language on the CD-ROM and run setup.exe from that directory (where D:\ is the drive letter of your CD-ROM drive; Language is your language).

13. When the printer driver is installed, right-click on the installed printer and select [Properties].
14. Click on [Print Test Page] button and the setup is complete when the test pages are printed.

Installing as RAW printer

1. Complete the printer driver installation as in “Installing as LPR printer” on page 11.
2. Open [Control Panel] and double-click on [Printers].
3. Right-click the installed printer on [Printers] screen and select [Properties].
4. Click on [Configure Port…] on [Ports] tab.
5. Select [Raw] as [Protocol] selection on [Configure Standard TCP/IP Port Monitor].
6. Check if [Port Number] text box is set to [9100] on [Raw Settings] screen. If not, enter [9100] in the [Port Number] text box.
7. Click on [OK] and end setting up.

Installing as NetBEUI Printer

Setting up OS network settings

1. Open the [Control Panel] and double-click on [Network and Dial-up Connections].
2. Double-click on [Local Area Connection] and click on [Properties].
3. Click on [Install…] button on [Local Area Connection Properties] screen.
4. Select [Protocol] on [Select Network Component Type] screen and click on Add…].
5. Select [NetBEUI Protocol] on [Select Network Protocol] screen.
6. Click on [OK] and end setting up.

Setting up printer network settings

The workgroup name and host name must be set to the printer. These names must be the same as those used in “Chapter 4 - Administrating Network Printers” on page 39.

With Network Card firmware Ver. 1.06. The workgroup name must be same as the name of the workgroup to which the printer belongs.

With Network Card firmware Ver. 1.10. Default workgroup and Host name can be used.

Installing the printer driver

1. Double-click on [Printers], then double-click on [Add Printer].
2. [Add Printer Wizard] is displayed. For printer management, select [Network printer] and click on [Next>].

3. Click on [Next>] on [Locate Your Printer].
4. Enter an appropriate name so that this printer can be distinguished from others on the network in the text box [Printer] and click on [Next>].
5. Click on [OK] when printer driver installation is displayed.
6. Click on [Have Disk....].
7. Insert the printer driver CD-ROM into the CD drive and click on [OK].
8. Follow the on-screen instructions and install the printer driver.

Note: By default, Windows will install the English printer driver. To install a localised printer driver in your language, browse to D:\DRIVERS\WIN2000\Language on the CD-ROM and run setup.exe from that directory (where D:\ is the drive letter of your CD-ROM drive; Language is your language).

9. When the printer driver is installed, right-click on the installed printer and select [Properties].
10. Click on [Print Test Page] button and the setup is complete when the test pages are printed.

Limitations

The NetBEUI Printer has following limitations.

1. The maximum number of hosts which can access the printer at any one time is four. If more than four hosts try to access the printer, the printer responds with error and an error message is displayed on the screen.
2. If the printer stays in the off-line state for more than 8 minutes, host(s) sending the print job generate(s) a timeout and the job is terminated.
3. (Firmware Ver. 1.06 only) The printer does not support Master Browser function. At least one PC, which acts as the Master Browser, should exist and the workgroup name of the printer should match to one of workgroup names existing on the network, otherwise an error is displayed on the screen when the host tries to communicate with the printer.

Printer sharing

The installed printer can be shared by other client PCs. Please use the following instruction to share the printer.

1. Open the [Control Panel] and double-click on [Printers].

2. Right-click the installed printer and select [Sharing…].
3. Select [Shared] and enter a suitable printer name in the [Share Name:] text box.
4. Click on [OK] and end setting up.

NetWare3.x file server

Setting up remote printer mode

This section describes connecting the network card to an existing print server. To create a print server, please refer to the NetWare manual.

Preparation

1. Log in to file server by the supervisor account (or user name which has a supervisor privilege).
2. Run PCONSOLE.

Creating print queue

If an already existing print queue is to be used, go to “Registering a printer in a print queue” on page 15.

1. Open [Print Queue Information] from [Available Options] and press [Insert] in [Print Queues].
2. Type a name of print queue you are going to create in the text box [New Print Queue Name:]. Make sure not to use an already existing print queue name.
3. Push the ESC key to return to the [Available Options] window.

Registering a print queue to the print server

1. From [Available Options], select and open [Print Queue Information].
2. Select the desired print queue from [Print Queues] and press the Enter key.
3. From [Print Queue Information], select [Queue Servers] and press the Enter key. The [Queue Servers] window will open.
4. Press the Insert key in the window. The [Queue Server Candidates] window will open.
5. Select the print server to be connected from the window and press the Enter key.
6. Press the ESC key to return to the [Available Options] window.

Registering a printer in a print queue

1. Open [Print Server Information] from [Available Options] and select a print server to which you wish to attach a print queue from [Print Servers].
2. Open [Print Server Configuration] from [Print Server Information].
3. Open [Printer Configuration] from [Print Server Configuration Menu].
4. Select [Not Install] in [Configured Printers] and press the Enter key. Then the Configuration window opens with a default printer name.
5. Press the Enter key in the text box [Name:]. Then you are prompted to enter a printer name. Type in a printer name you wish to register. Make sure not to use an already existing printer name.
6. Press the Enter key in the text box [Type:] and select [Remote Other/Unknown] from [Printer types].
7. Press the ESC key and select [Yes] in [Save changes].
8. Press the ESC key repeatedly to return to [Available Options].
9. Press the ESC key and select [Yes] in [Exit PConsole]. The setup is completed.

Starting the print server and connecting the network card

When print server is used on the file server, PSERVER.NLM has to be loaded. The PSERVER.NLM has been copied to SYS:SYSTEM when the file server was installed.

1. Enter the following in the system console of the file server: LOAD PSERVER print server name.
2. To exit the print server, press Alt key and Esc key simultaneously to return to the system console and enter the following: UNLOAD PSERVER print server name

When workstation is used specifically as the print server, PSERVER.EXE has to be executed. The PSERVER.EXE and the relevant files have been copied to SYS:PUBLIC when the file server was installed.

1. To start up the print server, these files must be accessed. Log in to the file server and map the search drive to SYS:PUBLIC or copy the necessary files to the local floppy disk or hard disk.

2. Change SHELL.CFG file or NET.CFG file so that the workstation dedicated to the print purpose can support adequate connections. Which CFG file you will edit depends on the NetWare client that has been installed.

3. Type the following line in SHELL.CFG or NET.CFG:

   SPX CONNECTIONS = 60

4. Boot MS-DOS and NetWare shell. To do so, enter the following at prompt of the workstation dedicated to print: PSERVER file server name/ print server name.

5. To close the print server, close it from PCONSOLE. Enter PCONSOLE from the client and start PCONSOLE.

6. Select [Print Server Information] from [Available Options]. Select the print server you wish to stop, from [Print Server] list.

7. Select [Print Server Status/Control] from [Print Server Information] menu.

8. Select [Server Info] from [Print Server Status and Control] menu.

9. Press the Enter key in the [Print Server Info/ Status] window. If you select [Down], the print server stops right away. If you select [Going down after current jobs, the server goes down after the current print job is completed.

Setting queue server mode

This network card can serve as a print server and connect Print Queues. Set print server, print queue and printer in the file server in the same manner as described in “Setting up remote printer mode” on page 14.

If the Print Server is not booted up on the file server side, this network card when in AUTO or Queue Server Mode is connected to the file server as a print server.

Note 1: To use the OKIPAGE 14i printer in Queue Server Mode, you must not set the password for the print server. If you set the password, you will not be able to connect this network card as a print server. To use the OKIPAGE 14i in Remote Printer Mode, you can connect it even if the password is set for the print server.

Note 2: This network card does not support banner sheet printing in the Queue Server Mode.

Message display in remote printer mode

This network card temporarily stops receiving next queue(s) while receiving a job in the NetWare Remote Printer Mode. When this happens, the NetWare server side handles this as temporary disconnection and a message to that effect is sent to the client side. Once the network card completes receiving of the current job, however, the connection with next queue is made and the receiving process starts normally. It is possible to change the display interval of the message from the NetWare server and user(s) for whom the message is displayed. You may change the settings as you see fit.

Setting from client using Windows95/98/Me NetWare Client Service

1. Log in to the NetWare file server from supervisor account.
2. Start PCONSOLE from the NetWare file server volume at MS-DOS prompt.
3. Open [Print Server Information] from [Available Options] window.
4. Select the print server for which you are changing the notification settings from [Print Servers] window and press Enter key.
5. Select [Print Server Configuration] from [Print Server Information] window and press Enter key.
6. Select [Notify List for Printer] from [Print Server Configuration Menu] window and press Enter key.
7. Select the printer name for which you are changing the notification settings from [Defined printers] window and press Enter key. Notification message is displayed to users displayed in the window opened here. If no user name is displayed here, no notification is issued. To confirm or change the notification interval, please proceed as follows.
8. The settings of the notification interval are displayed in [First] and [Next] columns of the user list opened in Step 7 above. [First] shows the time to issue the first notice and [Next] shows the interval of issue from one notice to the next notice. The time is expressed in seconds.
9. To change the notification interval, select target user(s) from the user list opened in Step 7 above and press Enter key. Change [First] and [Next] to desired times on [Notify Interval] window, press ESC key, select [Yes] on [Save changes] window and press Enter key.

10. To delete the user(s) to be notified, select the target user(s) from the user list opened in Step 7 above and press Delete key. Select [Yes] on [Delete Object From Notify List] and press Enter key.

11. To add a user to be notified, press Insert key with the user list opened in Step 7 above. Select user(s) or a group you wish to add from [Notify Candidate] window and press Enter key. Then [Notify Intervals] window is displayed. Enter time of your choice in [First] and [Next] and press ESC key. Select [Yes] on [Save changes] window and press Enter key.

12. After you confirm the notification settings and/or complete changing of the settings, close PCONSOLE.

13. Restart the print server to make the setting changes effective.

NetWare 4.x and 5 NDS environment

Setting up remote printer

Setting up the remote printer using the NetWare administrator utility

You need to set up the print queue, the print server and the printer in the NetWare environment in order to use this network card in the remote printer mode.

This section describes how to set them up, using an example in which NetWare Administrator Utility (NWADMIN), the Netware administration tool is used. The client is Windows95/98 to which NetWare Client32 has been installed.

1. To start up NetWare client:

   (a) Start up the NetWare client PC. Log in to the NetWare server from admin (or an account which is granted the administrator privilege.)

   (b) Start the NWADMIN. The current NetWare resources are displayed in the form of a tree.

2. To create a print server:

   (a) If an already existing print server is to be used, please proceed to Step 3.

(b) Click the directory where you wish to set the print server, on NWADMIN's main window, to select.

(c) Select [Create...] from [Objects] menu and open [New Object Class] screen.

(d) Select [Print server] from the [Object class:] list and press [OK].

(e) Enter the name of the print server you will create in the text box [Print server name:] on the [Create print server] screen and click on [Create]. Make sure not to use an already existing print server name. Details on how to set the print server will be described later.

3. To create a print queue:

(a) If an already existing print queue is to be used, proceed to Step 4.

(b) Click the directory where you wish to set the print queue, on NWADMIN's main window, to select.

(c) Select [Create...] from [Objects] menu and open [New Object Class] screen.

(d) Select [Print queue] from the [Object class:] list and press [OK].

(e) On the [Create print queue] screen, check [Directory service queue] and enter the name of the print queue you will create in the text box [Print queue name:]. Make sure not to use an already existing print queue name.

(f) Enter the name of the volume where print jobs of the print queue are saved in the text box [Print queue volume:]. You can find the volume from the directory tree. If the volume is selected from the directory tree, go to Sub Step (g). If the volume is directly typed in, go to Sub Step (i).

(g) Click the tree button beside the text box. Specify the directory where the target object is located from the [Directory context:] list of [Select object] screen. Select the object where print jobs will be saved from the [Object:] list. When the object is selected, the name of the object is displayed in the text box [Selected object:].

(h) Click on [OK].

(i) Click on [Create] in the [Create print queue] screen.

4. To create a printer:

(a) Click the directory where you wish to set up the print queue on NWADMIN's main window.

(b) Select [Create.] from [Objects] menu and open [New Object Class] screen.

(c) Select [Printer] from the [Object class:] list and press [OK].

(d) Enter the name of the printer you will create in the text box [Printer name:] on the [Create printer] screen and click on [Create]. Make sure not to use an already existing printer name.

5. To connect the printer to the print queue:

(a) On the NWADMIN's main window, click the printer newly created.

(b) Select [Details...] from the [Object] menu and open [Printer: Printer name] screen.

(c) Click on [Assignments].

(d) Click on [Add...] and open the [Select object] screen.

(e) Open the directory where the print queue to which the printer is to be connected is located from the [Directory context:] list.

(f) From the text box [Object:], select the print queue to which the printer is to be connected. Then the print queue name is displayed in the text box [Selected object:].

(g) Click on [OK].

(h) Click on [Configuration] in [Printer: Printer name:] screen.

(i) Change the text box [Printer type:] to [Others/unknown].

Note: You must set this as described otherwise the network card will not operate.

(j) Click on [OK] to return to the NWADMIN's main window.

6. To connect the printer to the print server:

(a) On the NWADMIN's main window, click the print server to which you wish to connect the printer.

(b) Select [Details...] from the [Object] menu and open [Print server: Print server name] screen.

(c) Enter the print server name in [Advertising name].

(d) Click on [Assignments].

(e) Click on [Add...] and open the [Select object] screen.

(f) Open the directory where the printer which you wish to connect to the print server is located from the [Directory context:] list.

(g) Select the printer you wish to connect to the print server from the text box [Object:]. Then the printer name is displayed in the text box [Selected object:].

(h) Click on [OK].

7. When you complete the environment setting with NWADMIN, please confirm the following items once more:

(a) Print Queue: Open [Assign] and confirm that the print server and the printer that you have set are displayed in [Administered Print Servers] and [Printers for which print queues are serviced], respectively. If they are not displayed, do the setting once again in the [Print Server] and [Printer Details] window.

(b) Print Server: Make sure that [Advertising name] matches the print server name. If they do not match, enter the print server name in [Advertising name].

(c) Open [Assign] and confirm that the printer that you have set is displayed in the [Printers]. If the printer is not displayed, click on [Add] and select the printer from the list to connect it. If the printer is not displayed in the list, it is created in a different context.

(d) Confirm that the printer number is among 0 through 15.

(e) Open [Print Layout] and confirm that Print server – Printer – Print Queue that have been set are connected.

(f) Click on [Change password] and check if the password is set in [Current password]. If the password is set, this network card cannot make a connection in Queue Server Mode. To use this network card in the Queue Server Mode, leave the password blank.

(g) Printer: Open [Assign] and confirm that the print queue(s) you have set is displayed. If it is not displayed, click on [Add] and select the Print Queue from the list to connect it. If Print Queue is not displayed in the list, Print Queue is created in a different context.

(h) Open [User Environment Setup] and confirm that [Printer Type] is set to [Other/ Unknown]. The default of [Printer Type] is [Parallel] and this must be set to [Other/ Unknown].

Setting up the remote printer using PCONSOLE (except NetWare 5)

In order to use this network card in the remote printer mode, you must set up the print queue, the print server and the printer in the NetWare environment.

This section describes how to set them using PCONSOLE of NetWare 4.x.

1. To start the NetWare client:

   (a) Start the NetWare client PC. Log in to the NetWare server from admin (or the account to which the administrator privilege has been granted).

   (b) Start PCONSOLE.

2. To create a print queue:

   (a) Select [Change context] from [Items that can be used].

   (b) Press Insert key in the text box [Enter context:].

   (c) Move the cursor to the directory where you will create a print queue from [Object, Class] and press F10 key. The context is displayed at upper left area of the PCONSOLE screen. Make sure that this matches with the context you wish to have.

   (d) Select [Print queue] from [Items that can be used] and open the [Print queue] list.

   (e) Press the Insert key, type the name of a print queue you will create in the text box [New print queue name:] and then press the Enter key. Make sure not to use an already existing print queue name.

   (f) Press the Insert key in the text box [Print queue volume:], select the volume where a print queue will be created from [Object, Class] and press the Enter key.

   (g) The newly created print queue name is added to [Print queue].

3. To create a print server:

   (a) Select [Change context] from [Items that can be used].

   (b) Press Insert key in the text box [Enter context:].

   (c) Move the cursor to the directory where you will create a print server from [Object, Class] and press F10 key. The context is displayed at upper left area of the PCONSOLE screen. Make sure that this matches with the context you wish to have.

   (d) Select [Print server] from [Items that can be used] and open the [Print server] list.

   (e) Press the Insert key, type the name of the print server you wish to create in the text box [New print server name:] and press the Enter key. Make sure not to use an already existing print server name.

   (f) The newly created print server name is added to [Print server].

4. To create a printer:

   (a) Select [Change context] from [Items that can be used].

   (b) Press the Insert key in the text box [Enter context:].

   (c) Move the cursor to the directory where you will create a printer from [Object, Class] and press F10 key. The context is displayed at upper left area of the PCONSOLE screen. Make sure that this matches with the context you wish to have.

   (d) Select [Printer] from [Items that can be used] and open the [Printers] list.

   (e) Press the Insert key, type the name of the printer you wish to create in the text box [New printer name: and press the Enter key. Make sure not to use an already existing printer name.

   (f) The newly created printer name is added to [Printers].

   (g) Select the newly created printer from [Printers] and open [Set printer environment of Printer name].

   (h) Press the Enter key in [Printer type:], select [Other/Unknown] from the [Printer type] list and press the Enter key.

Note: You must set this. If you omit this, this network card will not operate.

(i) Press the ESC key to save the change and complete the printer environment setup.

5. To define the printer and connect it to the print queue of the print server:

(a) Select [Change context] from [Items that can be used].

(b) Press the Insert key in the text box [Enter context:].

(c) Move the cursor to the directory where the target print server is located from [Object, class] and press the F10 key. The context is displayed at upper left area of the PCONSOLE. Make sure that this matches with the context you wish to have.

(d) Select [Print servers] from [Items that can be used] to open the [Print Servers] list.

(e) Select the print server you wish to connect the printer to from the [Print servers] list and press the Enter key.

(f) Select [Printers] from [Print server information] and press the Enter key.

(g) Press the Insert key in [Service printers], select the directory where the printer you wish to connect is located from [Object, Class], press the Enter key to have the name of the printer to be connected displayed and select it.

(h) When the printer name is displayed in [Service printers], press the Enter key to open the [Set printer environment of Printer name].

(i) Select [Assign print queue:] and press the Enter key.

Note: You must set the [Service printer]. If you omit this setting, this network card will not function correctly.

(j) Press the Insert key in [Print queues], select the print queue to connect from [Object, Class] and press the Enter key.

(k) When the print server to be connected to is displayed in [Print queues], press the ESC key.

(l) Press ESC key again to close the [Set printer environment of Printer name].

(m) Press the ESC key in [Service printers] to end.

Setting up queue server mode

This network card can serve as a print server and connect Print Queues. Set print server, print queue and printer in the File Server in the same manner as described in “Setting up queue server mode” on page 25.

If the Print Server is not booted up on the file server side, this network card when in AUTO or Queue Server Mode is connected to the file server as a print server.

Note 1: To use the OKIPAGE 14i printer in Queue Server Mode, you must not set the password for the print server. If you set the password, you will not be able to connect this network card as a print server. To use the OKIPAGE 14i in Remote Printer Mode, you can connect it even if the password is set for the print server.

Note 2: This network card does not support banner sheet printing in the Queue Server Mode.

NetWare 4.x and 5 bindery environment

To use the bindery service, set the bindery context in the NetWare4.x and 5 environment. Also set the print server and print queue in this bindery context.

Setting up bindery context

For setting the bindery context, you use the set command in the system console of the NetWare server.

This section describes how to do this, using an example in the network which is the NDS environment, except for DV2.

Type the following in the system console of the NetWare server:

SET BINDERY CONTEXT = DV2.DESIGN.COMPANY[RET]

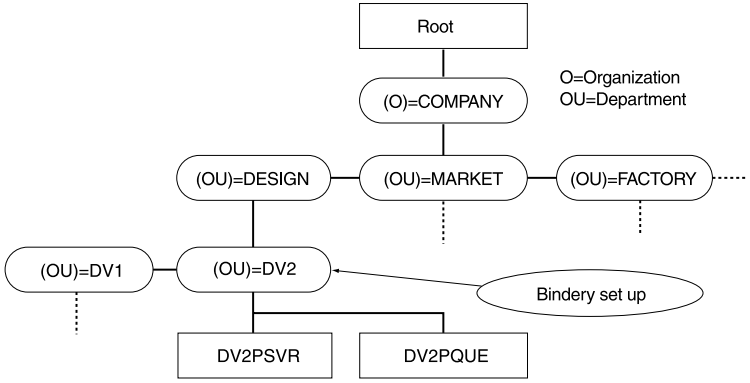
You can also set the Bindery Context by directly editing the AUTOEXEC.NCF file and adding the above SET statement.

With this setting, DV1 or other departments can access the resources of DV2's, using the Bindery Service.

Setting up print environment to bindery environment

To set the print environment in the NetWare 4.x and 5 Bindery environment, you need to create a print environment in the bindery context.

In the client PC to which NetWare Client 32 has been installed, log in to the bindery context from the admin account (or an account to which an administrator privilege is given), by specifying the bindery when you are logging in.



To log in, you need to log in to the NDS server. Select NDS server in the NetWare Client32 Log-In Window, and log in without checking the [Bindery Connection] check box.

After logging in from the admin account (or an account to which an administrator privilege is given), set the print queue, the print server and the printer for the bindery context with the PCONSOLE (except NetWare 5) or the NetWare Administrator.

For how to use the PCONSOLE and NetWare Administrator, please refer to "Setting up the remote printer using the NetWare administrator utility" on page 18 and "Setting up the remote printer using PCONSOLE (except NetWare 5)" on page 22

For the details of the NetWare Bindery Service, please refer to the Reference Manual for Novell NetWare.

Message display in remote printer mode

This network card temporarily stops receiving next queue(s) while receiving a job in the NetWare Remote Printer Mode. The NetWare server side handles this as temporary disconnection and a message to that effect is sent to the client side. Once the network card completes receiving of the current job, the connection with the next queue is made and the receiving process starts normally.

It is possible to change the display interval of the message from NetWare server and user(s) for whom the message is displayed. You may change the settings as you see fit.

Setting from client in PCONSOLE (except NetWare 5) using Novell Client 32

1. Log in to NetWare file server from admin account. Here uncheck the bindery connection check box in the Client 32 login window and log in.
2. Start PCONSOLE from the NetWare file server volume at MS-DOS prompt.
3. From [Items that you can use] window, select [Print Server] and press Enter key.
4. From [Print Server] window, select the target print server for which you are changing the notification settings and press Enter key.
5. From [Print server information] window, select [Printers] and press Enter key.
6. From [Service printers] window, select the printer name for which you are changing the notification settings and press Enter key.
7. Select [Notify:] in the [Printer xx environment setting] (xx: printer name) and press Enter key.

Notification message is displayed to the users displayed in the user list opened here. If no user name is displayed here, no notification is issued. To confirm or change the notification interval, proceed to Step 8.

8. The settings of the notification interval are displayed in [First] and [Next] columns of the user list opened in Step 7 above. [First] shows the time to issue the first notice and [Next] shows the interval between issues from one notice to the next notice. The time is expressed in seconds.

9. To change the notification interval, select target user(s) from the user list opened in Step 7 above and press Enter key. Change [First] and [Next] to the desired times on [Notify Interval] window, press ESC key. Select [Yes] on [Save changes] window and press Enter key.

10. To delete the user(s) to be notified, select the target user(s) from the user list opened in Step 7 above and press Delete key. Select [Yes] on [Delete Object From Notify List] and press Enter key.

11. To add a user to be notified, press Insert key with the user list open state in Step 7 above. From [Object/Class] window, select an object(s) you wish to add and press Enter key. Then [Notify Interval] window is displayed. Enter time of your choice in [First] and [Next] and press ESC key. In the [Save changes] window, select [Yes] and press Enter key.

12. After you confirm the notification settings and/or complete changing of the settings, close PCONSOLE.

Setting from client, which uses Novell Client32, with NetWare administrator utility

1. Log in to NetWare file server from admin account. Here uncheck the bindery connection check box in the Client32 login window and log in.

2. Start NWADMIN.

3. From main window, select the printer object(s) for which you are changing the notification settings and double click it, or select [Details...] of [Object] menu to display the detailed information.

4. Click [Notify] button. Objects which are the target of notification are displayed in [Notify] list. [First] shows the time to issue the first notice and [Next] shows the interval between issues from one notice to the next notice. The time is expressed in seconds.

5. To change the notification interval, select the object(s) you wish to change from [Notify] list opened in Step 4 and press Enter key. Change [First] and [Next] to desired times on [Notify Setting] window.

6. To delete the object(s) of notification, select the intended object(s) in the [Notify] list opened in Step 4 and press [Delete] button.

7. To add a user to be notified, press [Add] button in the [Notify] list opened in Step 4. Change the context to the one in which the object(s) you wish to add is located, on [Select object] window. Select the target object when it is displayed in the [Objects that can be used] list and press [OK]. You can set the notification interval in the procedures described in 5 above.

8. When you complete setting of the notification interval, press [OK], return to main window and close NWADMIN.EXE.

IP address setting in DHCP server environment

In the network environment where the DHCP (Dynamic Host Configuration Protocol) server is used in the network server, the IP address of this network card is automatically assigned by the DHCP server.

We strongly recommend that the IP address is fixed when this network card is used, but in some DHCP servers, the IP address cannot be fixed. For the DHCP server specifications, please refer to the manual which comes with the DHCP Server.

In order to use the DHCP IP address auto assignment function, you must set the DHCP request for this network card to ON. This is set to OFF at factory shipping.

The DHCP Request ON\OFF can be set either in the Level 2 of the printer menu or using the OkiView utility or the Web server/Telnet.

It will take about 30 seconds to complete rewriting of the setting change. Then, set the printer to OFF-LINE and then to ON-LINE, using the ON-LINE button of the printer or switch the printer off and on again.

CAUTION:
If both DHCP and RARP are set to ON, a serious error will result on network. Never set both to ON.

Setting up the UNIX server

IP address and host name in the host table

Using the following procedure, add the IP address and the host name (printer name) to the host table:

1. Get the IP address, which is not being used, from the network administrator and determine a unique name for this network card.
2. Add the IP address and the host name to the host table of the system. In almost all the UNIX systems, you can do this by adding the following line to /etc/hosts file:

   <IP address> <host name>
3. Update the data base. If the system uses data base such as Yellow Pages (YP) and Network Information Services (NIS), these must be updated. In almost all the UNIX systems, you can do this by entering the following commands:

   cd /var/yp
   make

Printer data base

To allow the printer to function correctly in the UNIX line printer system, you must create the /etc/printcap file. In the printcap data base, information on the line printer directly connected to a certain machine and the printer(s) that can be used via network is registered.

For the details of the printcap, please refer to the UNIX On-Line Manual Page or Reference Manual.

This section describes how to create the /etc/printcap file, using an example in which the remote machine name, the printer name and the spool directory name were set to OKIPAGE 14i.

First, create a directory OKIPAGE 14i under the directory /ver/spool/lpd. The printcap entry is composed of fields enclosed with colons (:). The last field must end with a colon. Describe the name of the printer in the first field of each entry. Start from the left margin, without placing a colon at the head.

Example:

```
# printcap entry for OKIPAE 14i PAGEPRINTER
on Network

OKIPAGE 14i:\
  :lp=\
  :rm=OKIPAGE 14i:\
  :rp=OKIPAGE 14i:\
  :lf=/var/adm/lpd-errs: \
  :sd=/var/spool/lpd/ OKIPAGE 14i:
```

If there is # at the beginning of the line, this line becomes a comment.

If you enter a carriage return without a space character after a back slash (\), this entry continues to the next line. Please note that if you enter a space character at the end of the printcap line, by mistake, a serious error will occur.

In this example, a tab is set for the left margin for the continuing lines. A continuing line of any entry must begin with a space character, normally with a tab character. If an entry continues to the second line or more, you must place a colon at the end of each line and the beginning of next line.

Meaning of each entry:

lp: device name to open for output. Specify the name of the file to open for output. For a printer which resides in the remote host, there must be an empty entry.

rm: machine name for remote printer. Specify the name of the remote machine connected. This name must be an already known host name of the machine on the network.

rp: remote printer name argument. Indicates that the printer name on the remote machine is OKIPAGE 14i.

lf: error logging filename. Specify the file which records the spooler errors. You can create it at an arbitrary place, but the permission to write must be already set.

sd: spool directory. Specify the spooling directory. Make sure that the directory has the correct permission.

Setting up the client

Setting Windows95/98/Me

Windows NT Server 4.0 environment

Setting Control Panel

1. From [Control Panel], double-click on [Network].
2. Make sure that the following items are in the configuration of [Network setup]. If not, click on [Add...] to add them.
   (a) Client for Microsoft networks
   (b) NetBEUI
   (c) File and printer sharing for Microsoft networks
3. Select [NetBEUI] from the [Current network configuration:] list and open [Properties].
4. Check the [Client for Microsoft networks] check box and the [File and printer sharing for Microsoft Networks] check box in [Bind] of the [NetBEUI's Properties].

Adding a printer

1. From [Control Panel], double-click on [Printers].
2. Double-click on [Add printer]. In [Printer Wizard], select [Network printer] for [Connect To].
3. In the text box [Network path or print queue], click on [Browse] and select the printer to connect from the [Printer] list.
4. For installing the printer driver, click on [Have disk...] and insert the CD-ROM that came with the printer into the CD drive.

Setting up a printer

1. From [Control Panel], double-click on [Printers].
2. Select the OKIPAGE 14i printer that has been recently added and select [Set Default Printer] in the [File] menu.
3. Open the [Properties] for the printer from the [File] menu.
4. Confirm that the [Print to port:] in [Details] is set to the network printer of your choice.
5. If the network printer of your choice is not set to the network printer, select one from the [Print to port:] list.

6. If you cannot find it in the list, click on [Add port...], and click on [Browse] from the [Add port] screen to select.

NetWare 3.x environment

Setting Control Panel

1. From [Control Panel], double-click on [Network].
2. Make sure that the following items are in the configuration of the [Network setup]. If not, click on [Add...] to add them.
   (a) NetWare Network Client
   (b) IPX /SPX Compatible Protocol
3. From the [Current network configuration:] list, select [IPX/SPX Compatible Protocol] and open [Properties].
4. Check [NetWare network client] in [Bind] of the [IPX/SPX Compatible Protocol's Properties]. If there are other network items, check other network items too, according to the network environment.

Adding a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

Setting up a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

NetWare 4.x and 5 NDS environment

Setting Control Panel

1. From [Control Panel], double-click on [Network].
2. Make sure that the following items are in the configuration of the [Network setup]. If not, click on [Add...] to add them.
   (a) Novell NetWare Client 32 (provided by Novell Corp.)
   (b) IPX 32-bit Protocol for Novell NetWare Client 32 (provided by Novell Corp.)
3. Log in to the NDS Tree when Windows95/98/Me is rebooted.

Adding a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

Setting up a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

NetWare 4.x and 5 Bindery environment

Setting Control Panel

1. From [Control Panel], double-click on [Network].
2. Make sure that the following items are in the configuration of the [Network setup]. If not, click on [Add...] to add them.
   (a) Novell NetWare Client 32 (provided by Novell Corp.)
   (b) IPX 32-bit Protocol for Novell NetWare Client 32 (provided by Novell Corp.)
3. Log in to the bindery context in the bindery mode when the Windows95/98 is rebooted.

Adding a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

Setting up a printer

Refer to "Windows NT Server 4.0 environment" on page 32.

Peer-to-Peer network environment

Setting up OS network settings

1. From [Control Panel], double-click on [Network].
2. Check if the following network components are installed on {Configuration] screen.
   (a) Client for Microsoft Networks
   (b) NetBEUI
   (c) File and printer sharing for Microsoft Networks
3. If not, click on [Add...] and add missing components.
4. Select [NetBEUI] on [The following network component are installed:] list and open [Properties].

5. On [Bindings] tab, check [Client for Microsoft Networks] and [File and printer sharing for Microsoft Networks].

6. Click on [OK] and end setting up.

Setting up printer network settings

The workgroup name and host name must be set to the printer. These names must be the same as those used in “Chapter 4 - Administrating Network Printers” on page 39.

With Network Card firmware Ver. 1.06. The workgroup name must be same as the name of the workgroup to which the printer belongs.

With Network Card firmware Ver. 1.10. Default workgroup and Host name can be used.

Workgroup name and Host name must be set to the printer. Please refer “Chapter 4 - Administrating Network Printers” on page 39.

The workgroup name must be same as the name of the workgroup to which the printer belongs.

Installing printer driver

1. From [Control Panel], double-click on [Printers].

2. Double-click on [Add Printer].

3. [Add Printer Wizard] is displayed. For printer management, select [Network printer] and click on [Next>].

4. Click on [Browse…] at [Network path or queue name:] text box and select the printer in [Browse for Printer] list.

5. Insert the CD-ROM which came with the printer into the CD drive and click on [OK].

6. Follow the on-screen instructions and install the printer driver.

7. When the printer driver is installed, right-click on the installed printer and select [Properties].

8. Click on [Print Test Page] button and the setup is complete when the test pages are printed.

Limitation

The NetBEUI Printer has following limitations.

1. The maximum number of hosts which can access the printer at a time is four. If more than four hosts try to access the printer, the printer responds with error and an error message is displayed on the screen.

2. (Firmware Ver. 1.06 only) The printer does not support Master Browser function. At least one PC, which acts as the Master Browser, should exist and the workgroup name of the printer should match to one of workgroup names existing on the network, otherwise an error is displayed on the screen when the host tries to communicate with the printer.
3. If the printer stays off-line state more than 8 minutes, host(s) sending print job generate(s) time-out and the print job is terminated.

Setting Windows NT4.0 Workstation

Refer to "Windows NT4.0 server" on page 8.

Setting Windows 2000 Professional

Refer to "Windows 2000 server" on page 10.

Setting Macintosh

Note: This network card does not support LocalTalk.

Installing the printer driver

Install the PostScript printer driver using the Installer which comes with the OKIPAGE 14i.

Printer setup

1. Connect the printer to the EtherTalk cable with NETWORK= ENABLE and EtherTalk =ENABLE, then turn on the power to the printer.
2. Open the Chooser from the Apple menu (Apple icon) of the menu bar. If Zone is set in EtherTalk, select the zone to which the printer has been connected.
3. When you select the PostScript printer driver from the Chooser, network printers connected to the EtherTalk are displayed.
4. Select OKIPAGE 14i and click on [Set Up].
5. In [Select PPD File], select PPD file of the OKIPAGE 14i and click on [OK].

Note: The PPD file is on the printer driver CD that came with the printer.

Zone name and printer name

For this network card, the names of the zones currently connected are automatically set to Zone Name for the network card. The default value at the time of factory shipping is * (asterisk).

Also, the printer name is set to OKIPAGE 14i. If there are several OKIPAGE 14i printers in the same zone, the network card automatically adds the numbers in ascending order to the printer names, in the order the printers are turned on.

For example, when two zones ZONE-01 and ZONE-02 are connected and three OKIPAGE 14i printers are connected in each Zone, the Zone name and the Printer name are shown in the following table.

Turning on the printer does not affect the printer name. In the above example, if only the OKIPAGE 14i1 of ZONE-01 is turned off and on again, it will be connected as the printer name OKIPAGE 14i1 again, and the printer names OKIPAGE 14i and OKIPAGE 14i2 do not change. Nor are the printers connected in ZONE-02 affected.

Connected Zone	Order printers turned on	Zone name	Printer name
Zone 01	1	Zone 01	Okipage 14i
	2		Okipage 14i1
	3		Okipage 14i2
Zone 02	1	Zone 02	Okipage 14i
	2		Okipage 14i1
	3		Okipage 14i2

Chapter 4 - Administrating Network Printers

Using administrative tools

OkiView

Refer to “OkiView32 for Windows 95/98/Me/NT4.0/2000” on page 65.

Web

This network card supports Web browsers such as Netscape Navigator and Microsoft Internet Explorer.

If you connect the printer to this network card with a Web browser, you will be able to confirm the printer status as well as change the settings shown below.

Window	Large Item	Small Item
Printer status	Printer Status (read only)	
Network Configuration	Printer Status (read only)	
Network Summary (read only)	General	Ethernet Address
		Cable Type
		F/W Version
	Netware	Mode
		Frame Type
	TCP/IP	IP Address
		Subnet Mask
		Default gateway
	EtherTalk	Printer Name
		Printer Type
		Zone Name
	NetBEUI	Computer Name
		Workgroup Name
		Comment

Window	Large Item	Small Item
General Settings	System Information	System Contact
		System Name
		System Location
	Protocol Options	TCP/IP
		NetWare
		EtherTalk
		NetBEUI
	Frame Options	Frame Type
TCP/IP	Method for assigning IP address	Use fixed IP address specified below
		DHCP/BOOTP
		RARP
	Fixer IP Address Settings	IP Address
		Subnet Mask
		Default Gateway
NetWare	NetWare Selections	NetWare Printer name
		NetWare Mode
	PServer Mode	NetWare Print Server Name
		Job Polling Rate
		Maximum File Servers
		Number of connected Servers
	NDS	Tree Name
		Context
	File Server for PServer Mode (Bindery)	File Server Name (1-8)

Window	Large Item	Small Item
Netware (cont.)	Remote Printer Mode	Maximum number of Print Servers
		Number of Connected Print Servers
		NetWare Print Server Names (1-4)
EtherTalk	EtherTalk Zone Name	
	EtherTalk Printer Name	
	EtherTalk Printer Type (read only)	
NetBEUI	NetBEUI	Computer Name
		Workgroup Name
		Comment
SNMP Traps	MIB ll information	Trap Community
	Trap Destination	Address 1-5
		IPX
	Trap Assignments	Address 1-5
		On-line (address 1-5)
		Off-line (address 1-5)
		Paper Out (address 1-5)
		Paper Jam (address 1-5)
		Cover Open (address 1-5)
		Printer Error (address 1-5)
Printer Configuration	Printer Status (read only)	
	Information	
	Printer Menu	

Window	Large Item	Small Item
Printer Configuration (cont.)	Print Menu	Copies
		Paper Feed
		Resolution
		Edit Size
		Paper Size Check
		Auto tray switch
		Manual Feed
	Media Menu	Tray 1 (Media Size, Weight)
		Tray 2 (Media Size, Weight)
		Multipurpose Feeder (Media Size, Weight)
		Manual Feed (Media Size, Weight)
	System Config. Menu	Power Save Delay
		Personality
		Clearable Warnings
		Auto continue
		Manual Time-out
		Wait Time-out
		Low Toner
		Error Report
	Parallel Menu (read only)	Parallel Port
		Bi-direction
		Speed
	USB Menu (read only)	USB

Some web browsers do not support frame display and this depends on the version of the web browser, but functionality is not affected. This network card recommends the use of the following browsers:

- Netscape Navigator Ver. 3.0 and higher
- Microsoft Internet Explorer Ver. 3.0 and higher

To change the setting, connect to the IP address of this network card with a web browser, make a change and click “Submit” button. You are then asked to give a User Name and Password. Enter the following:

- User Name - root
- Password - last six numerical characters of MAC address of this network card

For the MAC address, refer to the “Network Connection” page or the menu print. For example, enter “04106C” when the MAC Address is 00:80:87:04:10:6C.

If the change is successful, the message “OKI Private MIB is up-dated correctly!” is displayed.

It will take about 40 seconds after the message is displayed for the change(s) to be completed. To confirm the settings after you make the change(s), wait at least 40 seconds, then read the settings with the web browser.

If the change is not successful, the message “OKI Private MIB isn’t updated correctly!” is displayed. Check if the set value is correct.

Note 1: Web and Telnet cannot be connected at the same time.

Note 2: The printer status during reception of PostScript data will not be updated even if you click the update button on the Printer Status window.

Frame Types.

This network card can select the following frame types, but please note that certain network functions will become disabled depending on the setup. SNMP and OkiView utility can be used independent of the frame type setting.

Frame Type Setting	Supported Service		
	Layer 3	Layer 4	Layer 5 or higher
Auto (default)	All supported services available	All supported services available	All supported services available
EtherNet 2	ARP, RARP, ICMP,RIP		Telnet, FTP, LPR, HTTP (Web), DHCP, R-Printer, Q-Server, SAP
IEEE 802.2	RIP		R-Printer, Q-Server, SAP, NetBEUI (SMB)
IEEE 802.3	RIP		SAP, R-Printer, Q-Server
SNAP	RIP		EtherTalk (PAP), R-Printer, Q-Server, SAP

Please note the following when using the Microsoft Internet Explorer:

1. You must not drag the sub-window located at the left of the main window. If you do, the sub-window at the left of the screen will no longer be displayed. To display the sub-window again, re-start the browser.
2. To enable the “Update” button of the “Printer Status” window, click “Set...” button of the “Internet temporary files”, on the “Options...” detail setting screen of the “Display” menu. On the “Setup” screen, set the “Check the new version of the saved page:” to “Check every time the page is displayed”. Setting this enables the printer status to be searched every time the “Update” button is clicked.

Please note the following when using Netscape Navigator:

1. To enable the “Update” button of the “Printer Status” window, set “Verify Documents” to “Once per Session”, on “Cache” screen of “Network Preferences...” menu. Setting this enables the printer status to be searched every time the “Update” button is clicked.
2. If you change the size of the Web page with a browser immediately after you change the printer

setup, in some cases, “Security Information” dialogue is displayed every time the size is changed. If this occurs, uncheck the check box of “Show This Alert Next Time” of “Security Information” dialogue.

Telnet

You can set up this network card using the Telnet in the network environment where the TCP/IP protocol is used.

Note 1: You cannot make the NetWare server side settings with Telnet. Please use PCONSOLE, etc., for that.

Note 2: Telnet and Web cannot be connected at the same time.

Note 3: Maximum of two Telnet sessions can be connected.

Items that can be set

The following items can be set in Telnet. To change the settings, you must log in from [root] using the administrator’s account.

Category	Item	Meaning	Range
Protocol	TCP/IP	TCP/IP Enable/Disable	Enable/Disable
	NetWare	NetWare Enable/Disable	Enable/Disable
	EtherTalk	EtherTalk Enable/Disable	Enable/Disable
	NetBEUI	NetBEUI Enable/Disable	Enable/Disable
IP	IP BYTE 1-4	IP Address	0 - 255
	SM BYTE 1-4	Subnet Mask	0 - 255
	GW BYTE 1-4	Default Gateway	0 - 255
NetWare Common	NetWare Print Mode	Select operation in print mode	Auto/Q-Server/R-Printer
Q-Server	NetWare Print Server Name	Set own print server name	1 - 48 characters, default OKIDATA. (MAC address last 6 characters).
	Polling Rate	Polling cycle	1 - 60 sec, default 5 sec

Category	Item	Meaning	Range
Q-Server (Bindery)	NetWare File Server	Set name of file server to connect	1- 8 servers, each 1 - 48 characters. Default: Blank
	NetWare Queue	Set name of print queue to connect	1- 4 queues for each file server, each 1- 48 characters. Default: Blank
Q-Server (NDS)	NetWare NDS Tree Name	Set name of NDS Tree to connect	1- 48 characters. Default: Blank
	NetWare NDS Context Name	Set name of NDS Context to connect	1- 48 characters. Default: Blank
R-Printer	NetWare Printer Name	Own printer name	1- 48 characters. Default: OKIDATA. (MAC address last 6 characters).
	NetWare Print Server	Set name of print server to connect	1 - 4 servers 1 - 48 characters,. Default: Blank
DHCP	DHCP Request	DHCP Enable/Disable	ON/OFF
RARP	RARP request	RARP Enable/Disable	ON/OFF
AppleTalk	AppleTalk Zone Name	Set name of zone	1 - 32 characters,. Default: *
	AppleTalk Printer Name	Own printer name	1 - 32 characters, Default: Okipage 14i
NetBEUI (Network Card Firmware Version 1.06)	NetBIOS Computer Name	Own Printer Name	1 - 15 characters. Default: OKIPAGE 14i
	NetBIOS Workgroup Name	Set the name of the workgroup to which you wish to belong.	1 - 15 characters. Default: OKIDATA.
	NetBIOS Comment	Your own explanation	1 - 48 characters. Default: OKIDATA Print Server
NetBEUI (Network Card Firmware Version 1.10 (or higher).	NetBIOS Computer Name	Own Printer Name	1 - 15 characters. Default: OP. (MAC address's last 6 characters).
	NetBIOS Workgroup Name	Set the name of the workgroup to which you wish to belong.	1 - 15 characters. Default: OKIDATA (MAC address's last 6 characters).
	NetBIOS Comment	Your own explanation	1- 48 characters. Default: OKIDATA Print Server

Category	Item	Meaning	Range
SNMP	System Contact	Own contact name	1 - 47 characters. Default: Blank
	System Name	Own name information	1 - 47 characters. Default: Blank
	System Location	Own location information	1 - 47 characters. Default: Blank
	Trap Community	Set strings to set to trap message	1 - 32 characters. Default: Public
	Trap Destination	Trap destination address	1 - 6 Destinations
	Trap Usage	Trap Enable/Disable	ENABLE/DISABLE
	Trap events	Set the events to set to Trap message	ON-LINE/OFF-LINE/Paper Out/Paper Jam/Cover Open/Printer error

Telnet provides the following commands:

Command	Abbreviation	Meaning	Restrictions
show address	shaddr	Display all addresses	
show connection	shconn	Display all connections	
show queue	shq/lpq	Display print queue	
show status	shstat	Display status	
show protocol	shpro	Display protocol setting	
set address	seaddr	All address settings	root only
set address ip	seaddr ip	IP address setting	root only
set address mask	seaddr mask	Subnet mask setting	root only
set address gateway	seaddr gate	Gateway setting	root only
set protocol	sepro	Protocol info setting	root only
switch user	su	Switch user	
kill	kill	Kill connection	root only
reset	reset	reset connection	root only
help	help	Display command help	
quit	logout/exit	Exit from Telnet	

- After the settings are made with the set command, they become valid when you log out the Telnet.
- The kill command severs the connection with the Connection No that has been specified with N of “kill N”. The executed command becomes valid when this command ends.
- The reset command forcefully severs all the connections that are currently connected and initializes. This command becomes valid when you log out the Telnet. The execution of this command affects the use of this network card significantly. Therefore, exercise caution in executing this command.

Next, the operation procedure of the Telnet Client is explained. Here, an example is given in which Telnet is

used in Windows95 and IP address for the printer is 192.36.253.96 and the MAC Address for the network card is 00808704106C.

The above IP Address of the printer and the MAC Address for the network card can be verified by printing the menu with this network card installed in the printer.

Logging in

1. Start Telnet from Telnet Client side. Type the following at the command line:

   Ex.) Prompt> telnet 192.36.253.96 [Enter]

2. Enter USER Name. A prompt is displayed to prompt you to enter User Name and Password, as shown in "User Name:" and "Password:". Enter the user name and the password. The User Name and the Password at the time of factory shipping are as follows:

User	User Name	Password
General user	None	None
Administrator	root	MAC address last 6 characters of this network card. Refer to Menu print.

Example:
User Name: root [Enter]
Password: 04106C [Enter]

When the log-in to this network card is established, a prompt to prompt you to enter the command is displayed.

Setting TCP/IP environment

Display/set the TCP/IP protocol setup.

Display	Command to use:	show address or shaddr
	Target account:	general users and administrator user
Set	Command to use:	set protocol or sepro
	Target account:	administrator user

The following is an example on how to change the IP address from 192.36.253.96 to 192.36.253.100.

Procedure

1. Confirm the current setting.

   OkiPage> show address [Enter]

2. Change the setting.

   OkiPage> set protocol [Enter]

   <<Protocol setting>>
   <Select Protocol>
   TCP/IP=1 NetWare=2 EtherTalk=3 EXIT=0:1 [Enter]
   Will you use TCP/IP? (y/n): y [Enter]
   Type "n" to DISABLE TCP/IP
   Will you use DHCP? (y/n): n [Enter]

```
        Type “y” to ENABLE DHCP
Will you use RARP? (y/n): n [Enter]
        Type “y” to ENABLE RARP
IP Addr         (OLD) 192.36.253.96
                (NEW) 192.36.253.100 [Enter]
SUBNET
MASK            (OLD) 255.255.255.0
                (NEW) [Enter]
DEFAULT
GATEWAY         (OLD) 192.36.253.254
                (NEW) [Enter]
Are you re-setting (y/n): n [Enter]
        Type “y” to reset
OkiPage> logout (or exit or quit) [Enter]
```

If you wish to set other protocols now, enter an appropriate command without logging out.

You can change TCP/IP address with the set address command, too, in addition to the set protocol command.

```
OkiPage> set address [Enter]
IP Addr         (OLD) 192.36.253.96
                (NEW) 192.36.253.100 [Enter]
SUBNET
MASK            (OLD) 255.255.255.0
                (NEW) [Enter]
DEFAULT
GATEWAY             (OLD) 192.36.253.254
                    (NEW) [Enter]
```

The set address command can specify the item to change.

```
OkiPage> set address ip (or “mask”,”gateway”) [Enter]
```

Setting NetWare environment

In Telnet, you set the NetWare environment of this network card. For setting the NetWare server, use PCONSOLE, NetWare Administrator Utility, OkiView, etc.

Display/set the NetWare environment.

Display	Command to use:	show protocol or shpro
	Target account:	general users and administrator user
Set	Command to use:	set protocol or sepro
	Target account:	administrator user

The NetWare environment has the following items to be set:

NetWare common:
NetWare Mode:
Set in which of the modes, Queue Server Mode or Remote Printer Mode, this network card is to be used.

In AUTO Mode, the Queue Server Mode and the Remote Printer Mode are automatically switched.

Queue Server Mode
Print Server Name: Set the name of the print server.
Polling rate: Specify an inquiry interval on if there is a print queue in the file server.

Queue Server Mode (bindery)
File Server Name: Specify the file server to which the print server will be connected.

Queue Server Mode (NDS)
NDS Tree Name: Specify the tree name to which the print server will be connected.
NDS Context Name: Specify the context name to which the print server will be connected.

Remote Printer Mode
Printer Name: Set the name of the printer to be connected to the print server.
Print Server Name: Specify the print server to connect.

Setting procedure

The following setting procedure is explained using an example in which both the Queue Server and the Remote Printer in AUTO Mode are set using the setting values as shown below:

Item	Setting value
File server name	nwserver
Print server name	pserver14i
NDS Tree name	NPRINTER
NDS Context name	OU=DESIGN.OU=MFG. O=ACME
Printer name	op14i
Polling rate	10sec

1. Confirm the current settings.

   OkiPage> show protocol

   <<Protocol Status>>
   NetWare Q-Server Mode (bindery) Status - - '1'
   NetWare Q-Server Mode (NDS) Status - - '2'
   NetWare R-Printer Mode Status - - '3'
   EtherTalk Status - - '4'
   EXIT - - '0'

   Select the mode which you want to confirm using the number and press the Enter key. Then the current settings are displayed.

2. Change the setting.

   OkiPage> set protocol [Enter]

   <<Protocol setting>>
   <Select Protocol>
   TCP/IP=1 NetWare=2 EtherTalk=3 EXIT=0:2 [Enter]

   <<Protocol Setting>>
   <Select Protocol>
   TCP/IP=1 NetWare=2 EtherTalk=3 EXIT=0: 2 [Enter]
   Will you use NetWare? (y/n): y [Enter]
   Enter "y" to set up the NetWare

<<NetWare Setting>>
Select NetWare Print Mode
AUTO=1 Q-Server (bindery)=2 Q-Server (NDS)=3 R-Printer=4 EXIT=0: 1 [Enter]

<<Q-Server Mode (bindery) Setting>>
Print Server Name (1-47char) : pserver12i [Enter]
FileServer1 Name (1-47char) : nwserver [Enter]
FileServer2 Name (1-47char) : [Enter]
FileServer4 Name (1-47char) : [Enter]
FileServer5 Name (1-47char) : [Enter]
FileServer6 Name (1-47char) : [Enter]
FileServer7 Name (1-47char) : [Enter]
FileServer8 Name (1-47char) : [Enter]
Polling Rate (1-60sec) : 10 [Enter]

<<Q-Server Mode (NDS) Setting>>
Print Server Name (1-47char): pserver12i [Enter]
Tree Name (1-31char): NPRINTER [Enter]
Context Name: OU=DESIGN.OU=MFG.
O=ACME [Enter]
Polling Rate (1-60sec): 10 [Enter]

<<R-Printer Mode Setting>>
(default: Enter, skip: '.' , clear : '0')
Printer Name: op12i [Enter]
PrintServer1 Name (1-47char) : pserver12i [Enter]
PrintServer2 Name (1-47char) : . [Enter]
PrintServer3 Name (1-47char) : . [Enter]
PrintServer4 Name (1-47char) : . [Enter]
Do you re-setting? (y/n) : n [Enter]
OkiPage> logout (or exit or quit): [Enter]

Enter an appropriate command, without logging out, if you want to set other protocols

Setting EtherTalk environment

Display/set the EtherTalk environment.

Display	Command to use:	show protocol or shpro
	Target account:	general users and administrator user
Set	Command to use:	set protocol or sepro
	Target account:	administrator user

The EtherTalk environment has the following items to be set:

AppleTalk Zone Name: Specify the zone to which the printer will belongs to.
AppleTalk Printer Name: Set the name of the printer.

Setting procedure

The following setting procedure is explained using the setting values as shown below:

Item	Setting value
AppleTalk zone name	*
AppleTalk Printer name	OKIPAGE 14i

1. Confirm the current settings.

OkiPage> show protocol

<<Protocol Status>>
NetWare Q-Server Mode (bindery)
Status - - '1'
NetWare Q-Server Mode (NDS)

Status	- - ‘2’
NetWare R-Printer Mode Status	- - ‘3’
EtherTalk Status	- - ‘4’
EXIT	- - ‘0’

Type “4” and press the Enter key. Then the current settings are displayed.

2. Change the settings.

```
OkiPage> set protocol [Enter]

<<Protocol setting>>
<Select Protocol>
TCP/IP=1 NetWare=2 EtherTalk=3 EXIT=0 : 3 [Enter]
Will you use EtherTalk? (y/n) : y [Enter]
        Enter “n” if you will not use EtherTalk
AppleTalk Zone Name (1-32char) : * [Enter]
AppleTalk Printer name (1-32char) : OKIPAGE 14i
Are you re-setting? (y/n) : n [Enter]
OkiPage> logout (or exit, quit) [Enter]
```

Enter an appropriate command without logging out, if you want to set other protocols.

Setting NetBEUI environment

Display/set the NetBEUI environment.

Display shpro	Command to use:	show protocol or
	Target account:	General users and administrator user
Set	Command to use:	set protocol or sepro
	Target account:	Administrator user

The NetBEUI environment has the following items to be set:

NetBIOS Computer Name: Set the name of the printer.

NetBIOS Workgroup Name: Specify the workgroup to which the printer belongs.

NetBIOS Comment: Set the explanation of the printer.

Setting procedure

Here, the setting procedure is explained using an example and using the setting values shown below:

NetBIOS Computer name: OP04106C
NetBIOS Workgroup name: OKIDATA04106C
NetBIOS Comment: OKIDATA Print Server

1. Confirm the current settings.

OkiPage>show protocol.

<<Protocol Status>>

NetWare Q-Server Mode (bindery) Status	‘1’
NetWare Q-Server Mode (NDS) Status	- - ‘2’
NetWare R-Printer Mode Status	- - ‘3’
EtherTalk Status	- - ‘4’
NetBEUI Status	- - ‘5’
SNMP Status	- - ‘6’
EXIT	- - ‘0’

Type “5” and press the Enter key. Then the current settings are displayed.

2. Change the settings.

OkiPage>set protocol [RET]

<<Protocol setting>>

<Select Protocol>

TCP/IP=1; NetWare=2; EtherTalk=3 NetBEUI=4; SNMP Trap=5

EXIT=0 : 2 [RET]

Will you use NetBEUI ? (y/n) : y [RET]

Enter “n” if you will not use NetBEUI.

Computer Name(1-15char) : OP04106C [RET]

Workgroup name(1-15char) : OKIDATA04106C [RET]

Comment(1-48 char) : OKIDATA Print Server [RET]

Are you re-setting ? (y/n) : n [RET]

OkiPage> logout (or exit, quit) [RET]

Enter an appropriate command, without logging out, if you want to set other protocols.

Setting SNMP environment

Display/set the SNMP environment.

Display shpro	Command to use:	show protocol or
	Target account:	General users and administrator user
Set	Command to use:	set protocol or sepro
	Target account:	Administrator user

The SNMP environment has the following items to be set:

System Contact: Set the contact information of the printer.
System Name: Set the name information of the printer.
System Location: Set the location information of the printer.
Trap Community: Set the Trap Community of the printer.
Trap Destination: Set the Trap Destination address of the printer.
Trap Usage: Set the Trap enable or disable.
Trap events: Specify the events to send Trap.

Setting procedure

Here, the setting procedure is explained using an example, using the setting values shown below:

Item	Setting value
System Contact	www.okieurope.com
System Name	OKIPAGE 14i
System Location	conference room
Trap Community	public
Trap Destination	192.168.0.100
	00000000-00808704106C
Trap events	(ALL)

1. Confirm the current settings.

OkiPage>show protocol

<<Protocol Status>>

NetWare Q-Server Mode (bindery) Status ‘1’
NetWare Q-Server Mode (NDS) Status - - ‘2’
NetWare R-Printer Mode Status - - ‘3’
EtherTalk Status - - ‘4’
NetBEUI Status - - ‘5’
SNMP Status - - ‘6’
EXIT - - ‘0’

Type “6” and press the Enter key. Then the current settings are displayed.

2. Change the settings.

OKIPAGE>set protocol

<<Protocol setting>>

<Select Protocol>

TCP/IP=1; NetWare=2; EtherTalk=3
NetBEUI=4; SNMP Trap=5; EXIT=0 : 5 [RET]

<<SNMP setting>>

System Contact www.okieurope.com
System Name OKIPAGE 14i
System Location conference room
Trap Community public
Trap Destination 192.168.0.100
00000000-00808704106C
Will you enable this address? (y/n) : y [RET]
Will you enable notice by ON-LINE? (y/n) : y [RET]
Will you enable notice by OFF-LINE? (y/n) : y [RET]
Will you enable notice by Paper Out? (y/n) : y [RET]
Will you enable notice by Paper Jam? (y/n) : y [RET]
Will you enable notice by Cover Open? (y/n) : y [RET]
Will you enable notice by Printer Error? (y/n) : y [RET]
Trap2 Destination(xxx.xxx.xxx.xxx): 0.0.0.0 [RET]
Will you enable this address? (y/n) : n [RET]
Trap3 Destination(xxx.xxx.xxx.xxx): 0.0.0.0 [RET]
Will you enable this address? (y/n) : n [RET]
Trap4 Destination(xxx.xxx.xxx.xxx): 0.0.0.0 [RET]
Will you enable this address? (y/n) : n [RET]
Trap5 Destination(xxx.xxx.xxx.xxx): 0.0.0.0 [RET]
Will you enable this address? (y/n) : n [RET]
IPX Destination(xxxxxxxx-xxxxxxxxxxxx):
00000000-00808704106c [RET]
Will you enable this address? (y/n) : y [RET]
Will you enable notice by ON-LINE? (y/n) : y [RET]
Will you enable notice by OFF-LINE? (y/n) : y [RET]
Will you enable notice by Paper Out? (y/n) : y [RET]
Will you enable notice by Paper Jam? (y/n) : y [RET]
Will you enable notice by Cover Open? (y/n) : y [RET]
Will you enable notice by Printer Error? (y/n) : y [RET]
Are you re-setting ? (y/n) : n [RET]
OKIPAGE> logout (or exit, quit)[RET]

Enter an appropriate command, without logging out, if you want to set other protocols.

SNMP Manager (HP OpenView)

Okipage 14i and this network card support Management Information Base (MIB).

MIB is information that is sent/received between the managing host and the devices that are managed, with SNMP protocol, for the network management, defined in RFC1213 (MIB II).

The structure of the MIB is expressed by Abstract Syntax Notation One (ASN.1). Normally the results of compilation to the C-Language source using the ASN.1 compiler are used in a management software and a device to which it is incorporated.

Of the MIBs defined by various RFCs, Okipage 14i supports Private MIB only.

For the Okipage 14i, please contact your local supplier about an ASN.1 file.

By reading or rewriting MIB values using the various SNMP tools that use the SNMP protocol, you can manage printers on the network. This user guide explains how to refer to, set and change MIB, using the Open View Network Node Manager of Hewlet Packard Corporation.

MIBs set values and changing set values

MIBs set values

Using the Network Node Manager attached to the HP OpenView, you can check the current settings of the main unit of the Okipage 14i printer connected to the network or network card.

1. Start Network Node Manager.
2. Open [IP Map] of the segment to which the printer is connected.
3. Devices connected to that segment which have their own IP addresses are displayed on [IP Map] window in icons. The device(s) that is normally operating is in green icon and those, which are not, are displayed in red icon.
4. Click once on the IP address icon of the Okipage 14i you want to reference. The surroundings of the icon will turn grey. After making sure that the icon's surroundings have turned grey, double click on the icon.
5. Pull down the [Monitor] menu and select [Browse MIB: SNMP...] from [MIB Values].
6. When [Browse MIB] window opens, enter Okipage 14i IP address in [Name or IP Address] text box.

7. Select [Private] from [MIB Object ID] window and click on [Down Tree].
8. Similarly, using [Down Tree], select trees in order of [Enterprises], [Okidata] and [Peripheral.
9. [Printer] and [Printserver] are displayed. Select [Printer} to see the settings on the printer side, and [Printserver] to see the network card settings, then click on [Down Tree].

Set values on printer

In order to confirm the printer settings other than network related, such as paper size, tray used and emulation setting, search "printer" tree(s).

In Step 9 of "MIBs set values" above, click on [Printer] and then on [Down Tree].

1. Using [Down Tree], select trees in the order of [Nip], [Niptype1] and [cfg].
2. Select [cfg] and click on [Down Tree]. Each MIB item is displayed. Click the item for the set values you wish to confirm, then on [Start Query].
3. The currently set values are displayed in [MIB Values] window.

Set values on network card side

To confirm the Enable/Disable switching of each protocol and the detailed settings, you will search the [Printserver] tree(s).

In Step 9 of "MIBs set values" above, click on [Printserver] and then on [Down Tree].

1. Using [Down Tree], select trees in the order of [hcp] and [hcpcfg].
2. Select [hcpcfg] and click on [Down Tree]. Each MIB item is displayed. Click the item for the set values you wish to confirm, then on [Start Query].
3. The currently set values are displayed in [MIB Values] window.

Changing MIBs set values

It is possible to change the settings of the printer's main unit and the network card, by changing the Okipage 14i MIB, using the Network Node Manager of the HP OpenView.

1. Following the procedures of "Set values on printer" and "Set values on network card side" above, access [cfg] for the settings of the printer and [hcpcfg] for the settings of the network card side.

2. Select the object the settings of which you wish to change in [MIB Object ID] and click on [Start Query].

3. If you click the currently set values in [MIB Values] window, the current values are displayed in [MIB Instance] text box and [SNMP Set Value] text box.

4. Enter a value(s) to be set in [SNMP Set Value] text box and click on [Set]. The setting is changed.

5. If the setting is successful, [Set has completed successfully] is displayed in [Messages] window. Click on [Start Query] once more and, if the set values that have been changed are displayed in [MIB Values] window, that means the setting has been completed.

Note: For Read Only objects, even if you click the set values in [MIB Values] window, no values are displayed in [SNMP Set Value] text box, nor can you enter a value. If you enter an incorrect value, [SNMP set failed: The value given has incorrect type or length] is displayed in [Messages]. Re-enter a correct value.

HP JetAdmin software

This section contains instructions and information on how to configure and obtain diagnostic information using the Hewlett Packard JetAdmin software.

Software requirements:

- JetAdmin 2.4, 2.5, 3.02, 3.30, or 3.40
- Windows 95/98/2000/Me or Windows NT

Note 1: For more information on installing and using HP JetAdmin, refer to the HP JetAdmin documentation.

Note 2: For information on Hp JetAdmin 6.0/6.1, please refer to the WebJetAdmin directory on the CD-ROM.

Setting NetWare environment

1. From the main JetAdmin screen, select the Okipage 14i you want to configure.

2. Select [Modify] from the [Device] menu.

3. In the [Configuration] screen, select the [General] tab and enter the print server name and description.

4. Select the [NetWare] tab and click on [Operating Mode] from the left column. Set the print server operating mode from the given options on the right.
5. If you are running a NetWare 4.x network, click on [NetWare Directory Services] from the left column. Select [NDS Tree Name] from the pulldown menu and enter the [Print Server Context].
6. Click on [Queues] from the left column to bring up the [Queues] screen and then click on [Change].
7. Select the desired queues from the list of [Available Queues] to be added into services. Click on [Service] to move the selection to the [Serviced Queues] column. When all queues have been added, click OK.
8. Click on [OK] again to return to the main screen.

Setting TCP/IP environment

1. From the main JetAdmin screen, select the Okipage 14i you want to configure.
2. Select [Modify] from the [Device] menu.
3. in the [Configuration] screen, select the [General] tab and enter the print server name and description.
4. Select the [TCP/IP] tab and set the print server IP configuration.

Setting AppleTalk environment

1. From the main JetAdmin screen, select the Okipage 14i you want to configure.
2. Select [Modify] from the [Device] menu.
3. Under the [Optiona]l tab, select [Mac].
4. Enter the AppleTalk name and click on [OK].

Obtaining diagnostic information

1. From the main JetAdmin screen, select the Okipage 14i you want to view diagnostic information on.
2. Select [Properties] from the [Device] menu.
3. From the [Properties] screen, select the appropriate tab to view the desired diagnostic information.

Printer settings

For the basic use of the printer's operator panel, please refer to the user's guide for the printer.

Please wait for a minimum of 30 seconds before turning the power off to the printer. It will take about 30 seconds for the printer to save a menu change after you exit the menu.

If you wish to cancel the menu change, you can exit the menu mode by pressing the ON-LINE button.

We recommend that you confirm the contents with menu print after you make a change in the menu.

Note: You can only carry out a network setting of the printer when the printer is NOT receiving any print data.

Network enable/disable

In order to connect this network card to network and use it, Network must be set to ENABLE on the printer's operator panel. The default setting for NETWORK in the printer menu is ENABLE* (* indicates that value is set).

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.

Note: Do not set NETWORK to DISABLE whilst print data is being received by the printer.*

2. Press ON-LINE button to set the printer to OFF-LINE and press MENU1 button. When PERSONALITY is displayed, press MENU1 button repeatedly to display HOST/IF.
3. Press ENTER button. PARALL is displayed. Press MENU1 button, to display NETWORK.
4. When you see that the bottom column of the LCD is ENABLE*, press ON-LINE button to end the menu setting.
5. When you see that the bottom column of the LCD is DISABLE*, press left arrow button or right arrow button until ENABLE is displayed in the LCD bottom column. Then press ENTER button to have the ENABLE* displayed. Then press ON-LINE button to end the menu setting.
6. If you do not wish to receive print data from the network, set NETWORK to DISABLE* in the above procedure.

Setting TCP/IP

To use this network card in the TCP/IP protocol, TCP/IP must be set to ENABLE on the printer's operator panel.

TCP/IP enable/disable

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.
2. Press ON-LINE button to set the printer to OFF-LINE and hold the MENU1 button for 2 seconds or longer to have PRINT MODE displayed.
3. Press the MENU1 button repeatedly until NETWORK displayed, and press the ENTER button.
4. When you see that the bottom column of the LCD of TCP/IP is ENABLE*, press MENU1 button to proceed to set IP BYTE1. If the bottom column of the LCD is DISABLE*, press left arrow button or right arrow button until ENABLE is displayed in the LCD bottom column. Then press the ENTER button to have ENABLE* displayed (* indicates that value is set.)

Setting IP address

1. Following the procedure of "TCP/IP enable/disable" above, press MENU1 button until IP BYTE1 is displayed.
2. Change the address by pressing left arrow button or right arrow button. (If you hold the button for a several seconds, it will expedite the address updating.) When the value to be set is displayed, press the ENTER key to finalize it.
3. Press MENU1 button to move to IP BYTE2 setting. You can set up to and including IP BYTE4 using the same procedure above as for IP BYTE1.

Setting subnet mask

1. Following the procedure of "Setting IP address" above, press MENU1 button until SM BYTE1 is displayed.
2. Change the address by pressing left arrow button or right arrow button. (If you hold the button for a several seconds, it will expedite the address updating.) When the value to be set is displayed, press the ENTER key to finalize it.
3. Press MENU1 button to move to SM BYTE2 setting. You can set up to and including SM

BYTE4 using the same procedure above as for SM BYTE1.

Setting gateway address

1. Following the procedure of "Setting subnet mask" above, press MENU1 button until GW BYTE1 is displayed.
2. Change the address by pressing left arrow button or right arrow button. (If you hold the button for a several seconds, it will expedite the address updating.) When the value to be set is displayed, press the ENTER key to finalize it.
3. Press MENU1 button to move to GW BYTE2 setting. You can set up to and including GW BYTE4 using the same procedure above as for GW BYTE1.
4. After setting GW BYTE4, press ON-LINE button. It will enable data to be received in TCP/IP. To set NetWare ENABLE/DISABLE right after this, press MENU1 button after GW BYTE4 is set.

Confirming the setting

1. Print the menu after completing the setting of each address, to verify that the setting has been made correctly.
2. Press ON-LINE button to set the printer to OFF-LINE and hold the *Print Menu* button for 2 seconds or longer. When MENU HP PCL6* is displayed, press ENTER button.
3. If the set values printed in the menu print are not correct, set the values again.

Setting NetWare

NetWare enable/disable

To use this network card in the NetWare environment, NetWare must be set to ENABLE on the printer's operator panel. To set the print server and the remote printer, use the utility and the server.

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.
2. Press ON-LINE button to set the printer to OFF-LINE, and hold MENU1 button for 2 seconds or longer to display PRINT MODE.

3. Press MENU1 button repeatedly to display NETWORK. After NETWORK is displayed, press ENTER button.
4. TCP/IP is displayed. Press MENU1 button repeatedly to move to NETWARE.
5. When you see that the bottom column of the LCD of the NETWARE is ENABLE* (* indicates that that value is set), press ON-LINE button without doing anything and exit the menu.
6. If the bottom column of the LCD is DISABLE*, press left arrow button or right arrow button to have ENABLE displayed in the LCD bottom column, then press the ENTER button to have ENABLE* displayed. Then press ON-LINE button to exit the menu.
7. Now the NetWare is enabled. Setup the print server and the print queue with utility, etc.

Confirming the setting

1. Print the menu after completing the setting of each item to verify that the setting has been made correctly.
2. Press ON-LINE button to set the printer to OFF-LINE and hold the *Print Menu* button for 2 seconds or longer. When MENU HP PCL6* is displayed, press ENTER button.
3. If the set values printed in the menu print are not correct, set the values again.

Setting EtherTalk

To use this network card in the EtherTalk environment, EtherTalk must be set to ENABLE on the printer's operator panel.

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.
2. Press ON-LINE button to set the printer to OFF-LINE, and hold MENU1 button for 2 seconds or longer to display PRINT MODE.
3. Press MENU1 button repeatedly to display NETWORK. After NETWORK is displayed, press ENTER button.
4. TCP/IP is displayed. Press MENU1 button repeatedly to move to ETHERTALK.
5. When you see that the bottom column of the LCD of the ETHERTALK is ENABLE* (* indicates that value is set), press ON-LINE button without doing anything and exit the menu.

6. If the bottom column of the LCD is DISABLE*, press left arrow button or right arrow button to have ENABLE displayed in the LCD bottom column. Then press the ENTER button to have ENABLE* displayed. Then press ON-LINE button to exit the menu. EtherTalk is now enabled.

Setting NetBEUI (NetBIOS)

To use this network card in the NetBEUI (NetBIOS) environment, NetBEUI must be set to ENABLE on the printer's operator panel.

Note: Please use utilities described "Using administrative tools" on page 39 to set the Workgroup name and the Host name.

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.
2. Press ON-LINE button to set the printer OFF-LINE and hold MENU1 button for 2 seconds or longer to display PRINT MODE.
3. Press MENU1 button repeatedly to display NETWORK. After NETWORK is displayed, press ENTER button.
4. TCP/IP is displayed. Press MENU1 button repeatedly to move to NETBEUI.
5. When you see that the bottom column of the LCD of the NETBEUI is ENALBE* (* indicates that that value is set), press ON-LINE button without doing anything and exit the menu.
6. If the bottom column of the LCD is DISABLE*, press left arrow button or right arrow button to have ENABLE displayed in the LCD bottom column. Then press the ENTER button to have ENABLE* displayed. Then, press ON-LINE button to exit the menu. NetBEUI is now enabled.

Resetting network card to default

The network card can be reset to the factory default settings by following operation on the printer's operator panel.

1. Confirm that the printer is in the idle state from the LCD panel and the indicator.
2. Press ON-LINE button to set the printer OFF-LINE and hold MENU1 button for 2 seconds or longer to display PRINT MODE.

3. Press MENU1 button repeatedly to display NETWORK. After NETWORK is displayed, press ENTER button.
4. TCP/IP is displayed. Press MENU1 button repeatedly to move to NET MNT and press ENTER button.
5. Press MENU1 button repeatedly to display FACTORY RESET. After FACTORY RESET is displayed, press ENTER button.
6. Wait for about 20 seconds until the printer restarts.

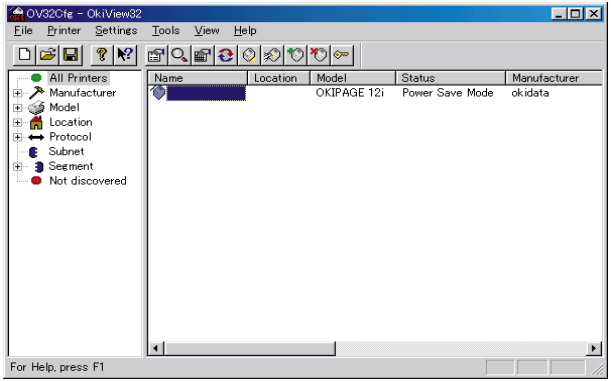
This operation produces the same effect as if you reset the Network card with “TEST” button.

(Refer to the sub-section 2.2, “Resetting the Network card to the Factory default.)

Chapter 5 - Utilities Installation

OkiView32 for Windows 95/98/ Me/NT4.0/2000

The OkiView32 Utility provides a simple, quick way of configuring and maintaining Oki network printers. The main screen contains the OkiView32 Printer List of network printers. It also provides the starting point to select and manage print devices from Windows 95/98/ NT 4.0/2000/Me on the network.



This section gives a summary of OkiView32's features. For more details, see the OkiView32 on-line help.

Installation

1. Log onto the network as a user with administrative privileges.
2. Insert the software CD-ROM into the CD-ROM drive.
3. Click on [Start] - [Run].
4. Type D:\OKIVIEW\SETUP (where D:\ is the drive letter of your CD-ROM drive).
5. Follow the on-screen installation instructions.

Printer information panel

The right screen of this view shows a scrolling list of all the printers currently available for status and configuration. Information (printer name and status) is detailed to the right of the printer icon. The left screen

of this view enables filtering of the printers in the right screen by various items (Manufacturer, Model, etc.).

Properties page

The Printer Properties menu is the entry point for complete printer management. All status and configuration sub-menus are found here: Status, Job Management, Printer Options, Network, Novell, and Device Info.

To enter Properties Page:

1. Select a printer on the Printer Information Panel.
2. From the Printer menu, click on Printer Properties.

Status screen properties page

The status screen actually provides two groups of information. The first group of information is descriptive information about the printer. The user can fill in the name and location of the printer. In addition, if OkiView32 has a picture of the actual printer available, it is displayed. Also included in this group is a printer specific Features button.

The second group of information is the on-line/off-line status of the printer; this is shown in the lower left-hand corner of the display. The adjacent information box is the status text actually displayed on the printer front panel.

To display the status and description of a printer:

1. Click the Status tab.
2. When done, click Ok to exit or Apply and then select another tab.
3. To change printer's name or change printer's location:
   (a) Click the Status tab.
   (b) Change the text in the name and/or location fields as desired.
   (c) When done, click Ok to exit, or Apply and then select another tab.

Job management properties page

OkiView32 provides the user the ability to do print job management. Specifically, the user can select any job queue serviced by the selected printer via the Printer Queue List menu. The range of the queue search is set in the Microsoft Search Scope menu. Furthermore, after selecting a print job in the Print Job List, one of the following operations can be performed: Pause Job, Resume Job, and Delete Job.

Printer options properties page

The Printer Option menu is a series of dialogs that allow the user to configure any printer's Paper Handling and Advanced Features.

Network properties page

The network screen has two main sub-menus: Protocols, Frame Types, and SNMP Traps.

Novell properties page

The Novell menus allow users to modify configurations to support their printing needs without accessing standard DOS based NetWare utilities such as PConsole. The Novell menu system has two primary elements: Novell List Panel and Novell Information Panel.

Device info properties page

The Device Information field is a collection of miscellaneous information ranging from general system information to the printer's firmware version.

To view printer specific details:

1. Click the Device Info tab.
2. Click OK when done.

Quick printer status

Sometimes, you need to take a quick look at the detailed on-line status of a printer. The Quick Printer Status provides this feature, along with such other information as printer name, printer location, etc.

To manually acquire new printer status:

1. From the Printer menu, click Quick Printer Status to get printer’s current status.
2. Click Ok.

Oki LPR for Windows 95/98/ NT4.0/2000/Me

What is Oki LPR Utility?

Oki LPR Utility is a utility for printing to Okipage 14i printer connected to Ethernet, from Windows 95/98/ NT4.0/2000/Me, using the LPR function of the TCP/IP Protocol.

Operating environment

The utility runs on a computer to which the network adapter that supports TCP/IP has been installed.

Setting the printer

Set NETWORK to ENABLE in the printer's MENU1. Set TCP/IP to ENABLE in the printer's *Menu2* and set the IP address.

For how to set these, refer to "Setting TCP/IP" on page 59.

Note: If you make a mistake in setting IP address, a fatal error will occur on the network. Please consult the network administrator and determine the address to be assigned.

If you are planning a small LAN composed of one Windows 95/98 computer and one printer connected over Ethernet, please do the following setting. You must make sure that these are not connected to other network(s). If you try the following setting when these are connected to other network, a fatal error will occur on the network:

IP address: The top values are fixed to 192.168.0. The fourth value is any value between 1 to 254.

Subnet mask: 255.255.255.0. fixed

Gateway address: 0.0.0.0. fixed

Setting Windows 95/98/NT4.0/2000/Me

Setting network adapter

Please refer to the manual for each network adapter driver and set it.

Setting TCP/IP

1. Open [Control Panel] and double-click on [Network].
2. Check if configuration elements of [TCP/IP] are in [Current Network Configuration] of the [Set

Network] tag. If they are not found, add them in the following procedure:

(a) Click on [Add...] in the [Set Network] tag and open [Add network configuration file(s)].

(b) Select [Protocol] in the [Network configuration file to be installed:], then click on [Add…] and open [Select network protocol] window.

(c) Select [Microsoft] in the [Manufacturers], then [TCP/IP] in the [Network protocols:] and click on [OK].

(d) Make sure that TCP/IP has been added to [Current network configuration] of [Set Network] tag.

3. Select TCP/IP from the [Current network configuration:] list, open [Properties] and set the following items:

(a) IP Address

(b) Subnet mask

(c) Gateway

(d) DNS

Note: If you do not know the values to set, consult the network administrator.

4. Restart the computer after completing the setting of TCP/IP.

Printer driver setup

1. Double-click on [Printers], then double-click on [Add Printer].
2. [Add Printer Wizard] is displayed. Insert the printer driver CD-ROM into the CD drive.
3. Follow the on-screen instructions and install the printer driver selecting the printer as default printer and local printer.

LPR installation and uninstall

Installation

1. Insert the software CD-ROM into the CD-ROM drive.
2. Click on [Start] - [Run].
3. Type D:\OKILPR\SETUP (where D:\ is the drive letter of your CD-ROM drive).
4. Follow the on-screen installation instructions.

5. When Setup is completed, the following folders are created:

   (a) C:\Program Files\Okidata\OKI LPR Utility (Install software folder)

   (b) C:\Program Files\Okidata\OKI LPR Spool (Spool Range of print data)

   (c) C:\Program Files\Okidata\Common (Common DLL folder).

Uninstall

1. To delete it, exit [Oki LPR UTILITY].
2. Click on [Start] and select [Programs] - [Okidata] - [OKI LPR Utility] - [Uninstall OKI LPR Utility].
3. The [Confirm File Deletion] dialog is displayed. Click on [Yes] to begin deleting the OKI LPR Utility.
4. After the utility is deleted, the [Uninstall complete] screen is displayed. Click on [OK].

Registering or deleting a printer

Registering LPR printer

You will register the printer to be used in LPR UTILITY. If you register the printer to LPR Utility, the output destination of the printer driver that has been registered will be set in the spool directory created at the time of LPR Utility Installation.

1. Double-click on [Oki LPR UTILITY] in the [Oki LPR UTILITY] window.
2. Select [Add Printer...] in the [Remote Print] menu in the [Oki LPR UTILITY] window.
3. Select the printer driver [OKIPAGE 14i] from [Printer:] and enter the IP address of the printer in [IP Address:].
4. Click on [OK] and [OKIPAGE 14i] will be added to [Oki LPR UTILITY] main window.

Setting LPR printer's IP address

After completing registering the printer driver, set the LPR printer's IP Address.

1. Select the printer the address of which you wish to set from [Oki LPR UTILITY] window (printer name turns blue).

2. Select [Confirm Connections...] in the [Remote Print] menu.
3. Enter the printer's IP Address in [IP Address] of the [Confirm Connections] window.
4. Click on [OK]. Then the IP Address you have entered and the printer are linked.

Deleting LPR printer

This subsection describes the procedure to clear the registration of the LPR printer to LPR Utility. After clearing the registration, set the [Print to the following port:] window to local printer.

1. Select the printer you wish to delete from [Oki LPR UTILITY] window (printer name turns blue).
2. Select [Delete Printer] in the [Remote Printer] menu.
3. Click on [Yes] in the confirmation message window. Now the printer is deleted form the LPR Utility.

Printing methods

There are two methods available to print to the LPR printer.

Windows 95/98/NT4.0/2000/Me applications

With Oki LPR UTILITY activated state, instruct the Okipage 14i printer to print.

Directly down loading print data

1. Select [Down load] in the [Remote Print] menu of the [Oki LPR UTILITY] window.
2. Select the file you wish to print in [Send Files] window.
3. Click on [OK]. The file transfer to the printer begins.

Status display

Oki LPR Utility window

[Printers] window displays the printer drivers that are registered in the LPR Utility. The printer driver that is currently selected is displayed in blue.

[Status] window

Display	Status
Waiting	Print job is spooled. Print job is being spooled, but the printer is not recognised.
Send-xx%	Print job is being sent to printer.
Paused	Print job is being held without being sent to the printer.

[Finish] window displays the total number of print jobs after the LPR Utility is activated. This will be cleared when the LPR Utility is re-started.

[Queue] window displays the number of print jobs that are currently spooled.

Print job display

Displays print jobs that are in the spool area, for each printer.

1. Select the printer that you wish to confirm from [Oki LPR UTILITY] window (printer name turns blue).
2. Select [Job Status...] in the [Remote Print] menu. [Job] of the specified printer is displayed. If this printer currently has jobs, the list is displayed.

   You can also display [Job] by double-clicking the printer name whose jobs you wish to confirm, on the [Oki LPR UTILITY] window. The contents that are displayed for a job are as follows:

STATUS column	Transmit	Indicates that a print job is being sent to the printer
	Waiting	Indicates that the printer is waiting for the print job to be sent
Date/Time column		Displays the date/time when printing was instructed.
Size column		Displays the data size of the print job in bytes.

Other functions

Deleting print jobs

You can delete an arbitrary print job(s) that is in the spool area:

1. In the [Oki LPR UTILITY] window, select the printer driver for which the print jobs are spooled and display [Job] from [Remote Print] menu.
2. Select the job(s) you wish to delete and click on [Delete]. In some cases, the print job(s) remains in the printer. If that occurs, reset the printer by switching off and on.

Confirming printer status

You can confirm printer status as follows:

1. Select the printer that you wish to confirm from [OKI LPR Utility] window (printer name turns blue).
2. Select [Printer Status...] of the [Remote Printer] menu on [OKI LPR Utility] window.

Redirecting print jobs

You can redirect a print job to be sent to Remote Printer to a different remote printer.

1. Select the printer that you wish to redirect from [OKI LPR Utility] window (printer name turns blue).
2. Select the job(s) you wish to redirect and select the printer from [Redirect] in [Job] menu.
3. You can redirect a job only to printers that is the same model as the sending printer.

Chapter 6 - Troubleshooting

Checking status codes

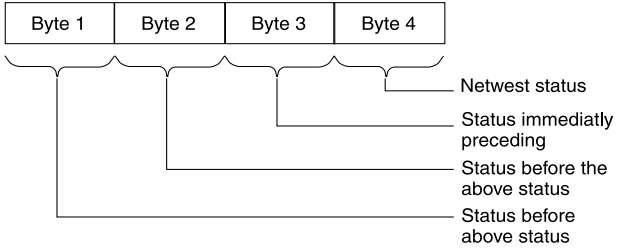
When an error occurs in data reception/transmission using this network card, the printer's LCD panel displays HOST/IF ERROR. In this case, check the status code using the following procedure, write down the status code and consult your nearby service centre:

1. Clear the error by holding *Recover* button for 2 seconds or longer.
2. Hold the MENU1 button in OFF-LINE state for 2 seconds or longer to move to *Menu2* setting. When you have moved to that level, PRINT MODE is displayed.
3. Press the MENU1 button repeatedly. When NETWORK is displayed, press the ENTER button to move to the Network setting mode.
4. Press the MENU1 button repeatedly. When NET MNT is displayed, press the ENTER button again. STATUS is displayed. At this point, numbers indicating the error type are displayed on the bottom column of the LCD.
5. Press left or right arrow button, then detailed status codes from STATUS1 to STATUS18 are displayed in numbers. Write down the status code and consult your nearby service centre.
6. Press ON-LINE button to exit the menu setting mode. The printer returns to the idle state.

Understanding status codes

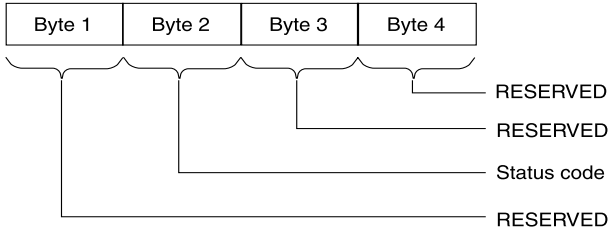
This area has 4 bytes and holds the most recent four error states. In the figure, the numbers shown at Byte1 are the oldest of the four errors while the numbers shown at Byte 4 are the newest error. The number shown in each byte indicates the sub-status code no.

In other words, when STATUS is shown as 00021509, the error that has occurred most recently is STATUS09 and the error before that is STATUS15, and the error before that is STATUS02. In this case, because the byte 1 is 00 (no error), you will know that STATUS02 is the oldest error.



As the way to look at the number, for example, 00021509, take two characters as a unit, that is, 00, 02, 15 and 09. 00 indicates that no error has occurred. Since the first error had occurred in the category 02, press right arrow button twice to check the sub status code of STATUS02. Write down the status code.

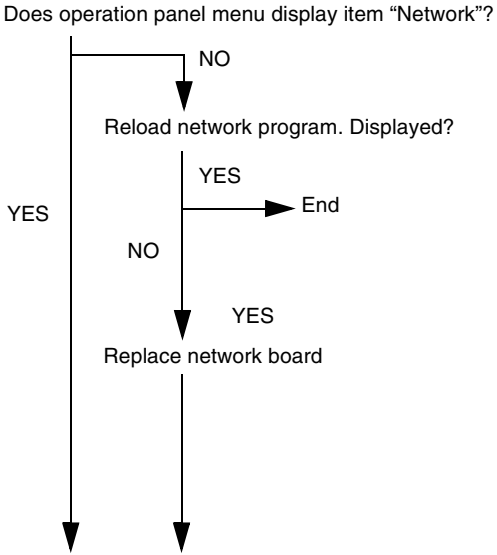
Next how to look at each sub status code will be explained. A sub status code has 4 bytes, too, but the status is the byte2.

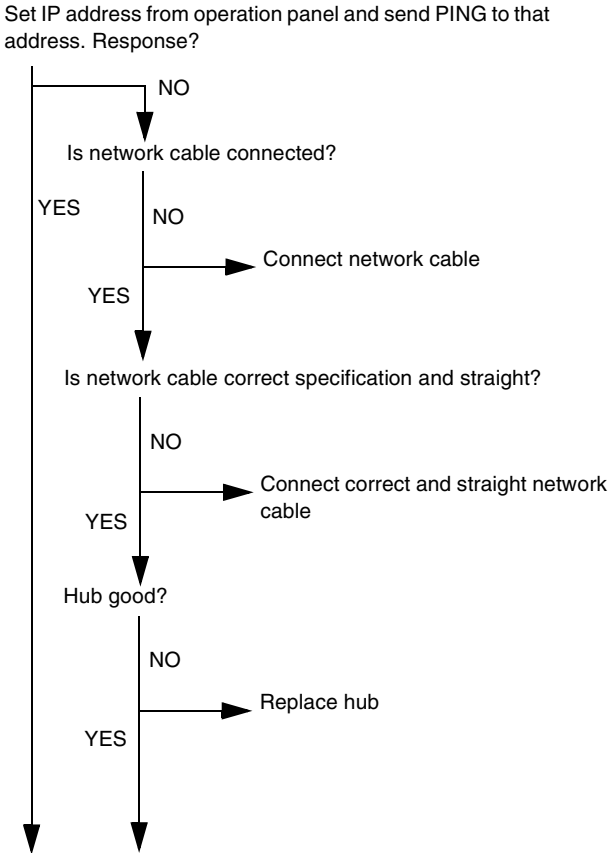


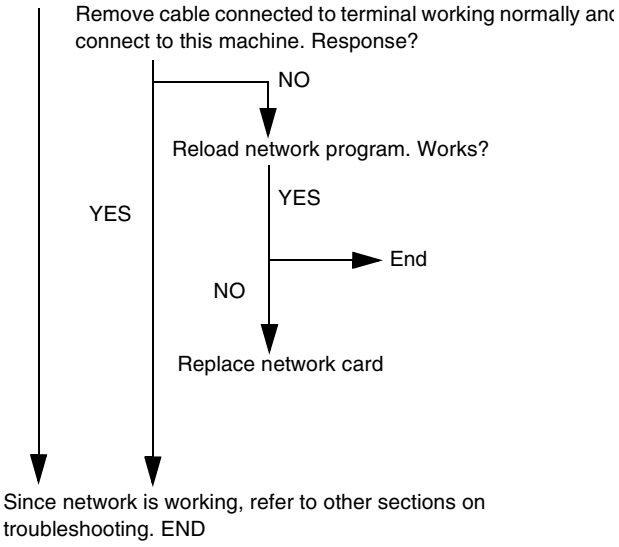
Troubleshooting by protocol

Common

Network functions do not work at all.

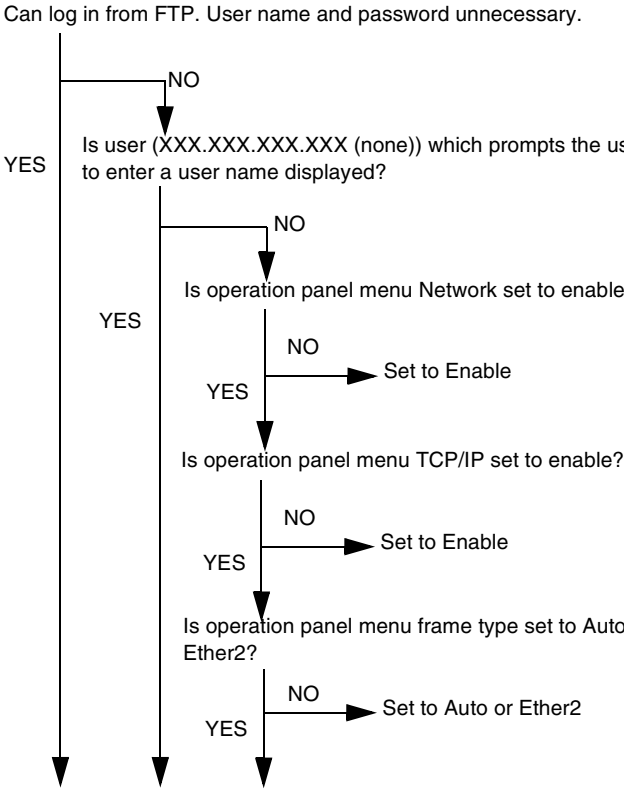


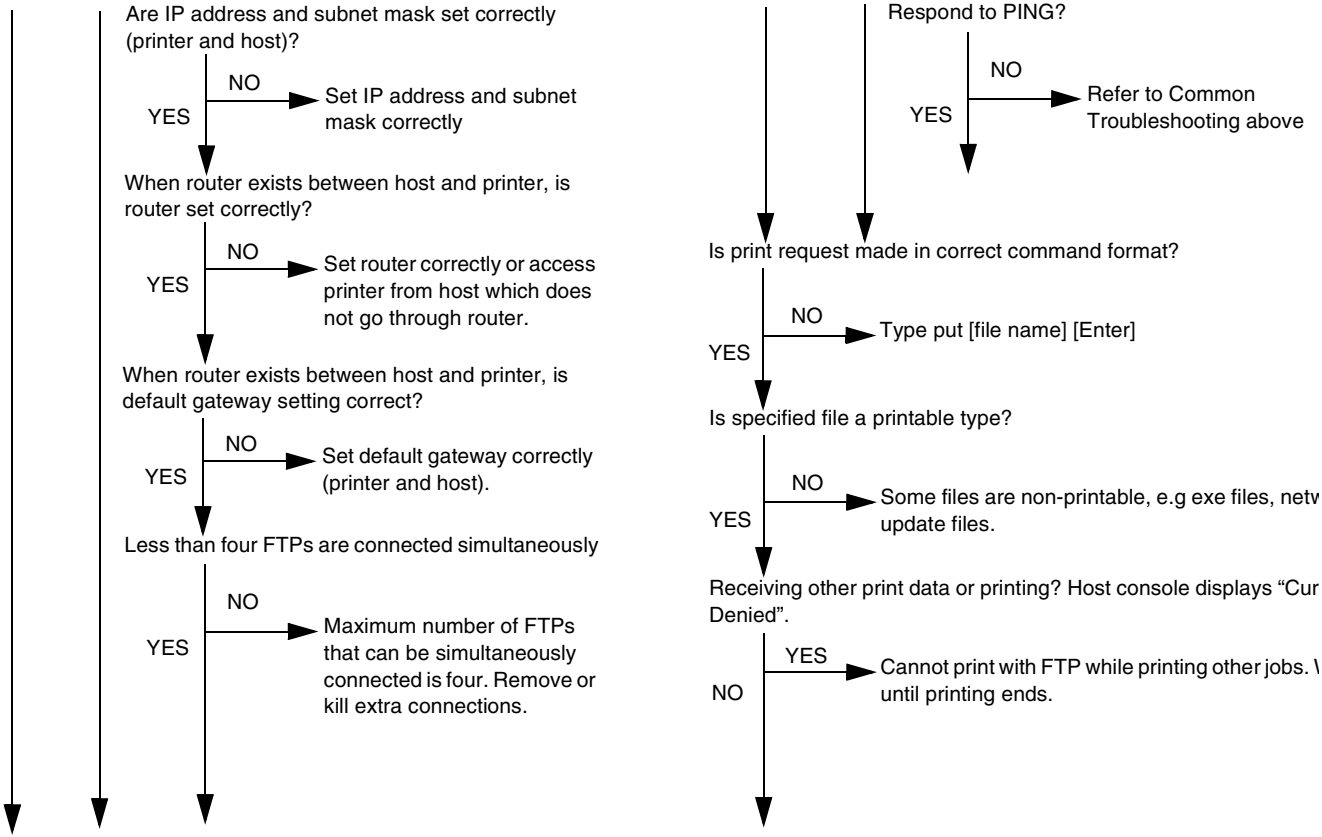


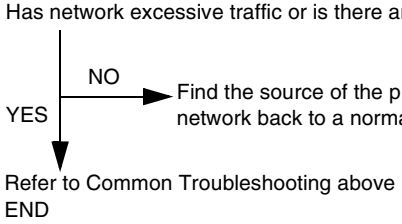


TCP/IP related

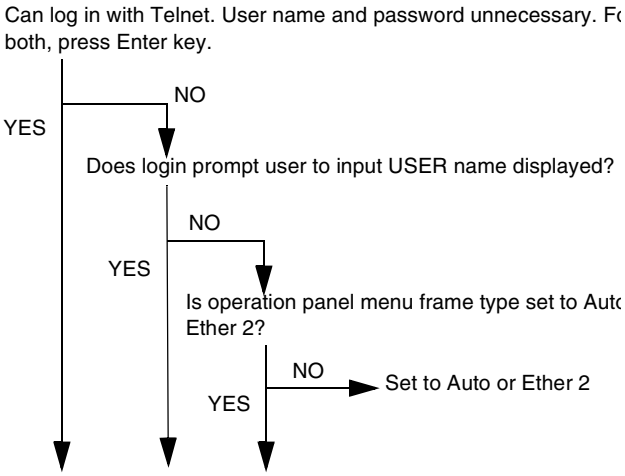
Cannot print with FTP.

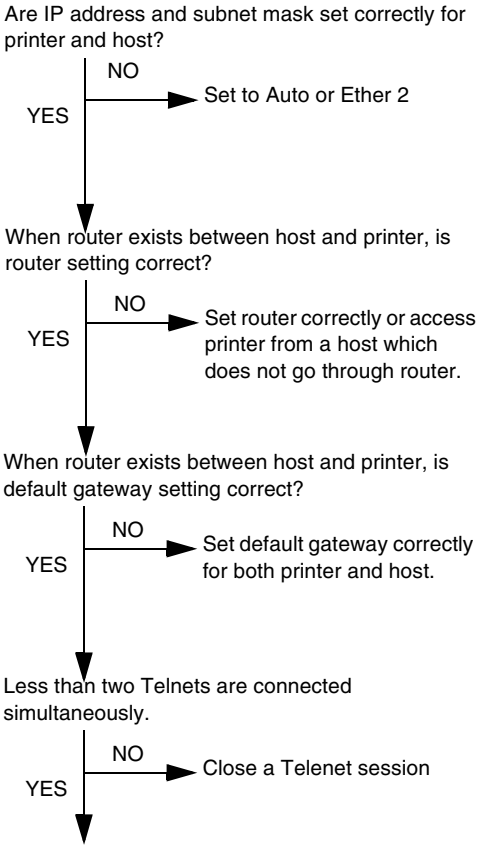


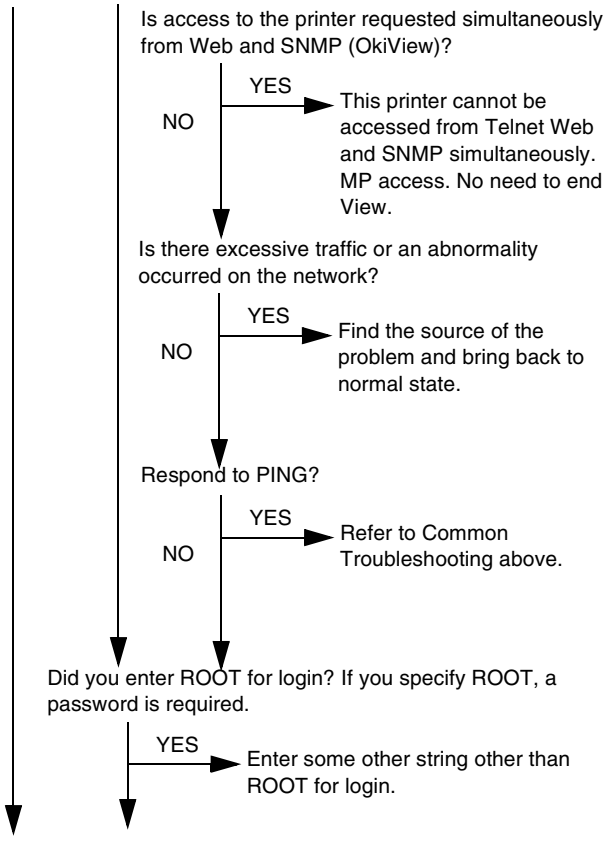

Are IP address and subnet mask set correctly (printer and host)?
NO
YES
Set IP address and subnet mask correctly
When router exists between host and printer, is router set correctly?
NO
YES
Set router correctly or access printer from host which does not go through router.
When router exists between host and printer, is default gateway setting correct?
NO
YES
Set default gateway correctly (printer and host).
Less than four FTPs are connected simultaneously
NO
YES
Maximum number of FTPs that can be simultaneously connected is four. Remove or kill extra connections.
Respond to PING?
NO
YES
Refer to Common Troubleshooting above
Is print request made in correct command format?
NO
YES
Type put [file name] [Enter]
Is specified file a printable type?
NO
YES
Some files are non-printable, e.g exe files, netv update files.
Receiving other print data or printing? Host console displays “Cur Denied”.
YES
NO
Cannot print with FTP while printing other jobs. \ until printing ends.

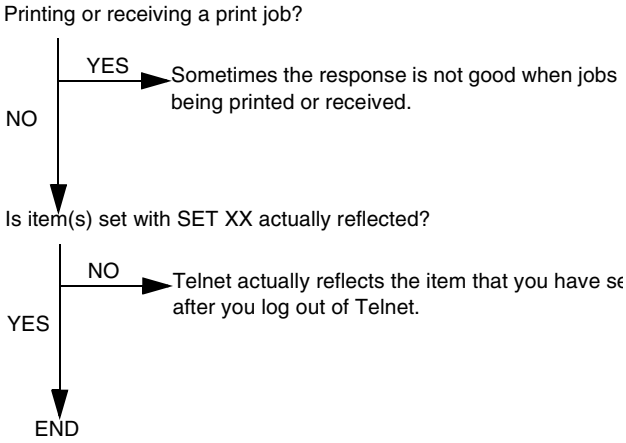

Has network excessive traffic or is there an abnormality?
NO
YES
Find the source of the problem and bring the network back to a normal state.
Refer to Common Troubleshooting above
END

Cannot refer to printer settings or change them with Telnet.



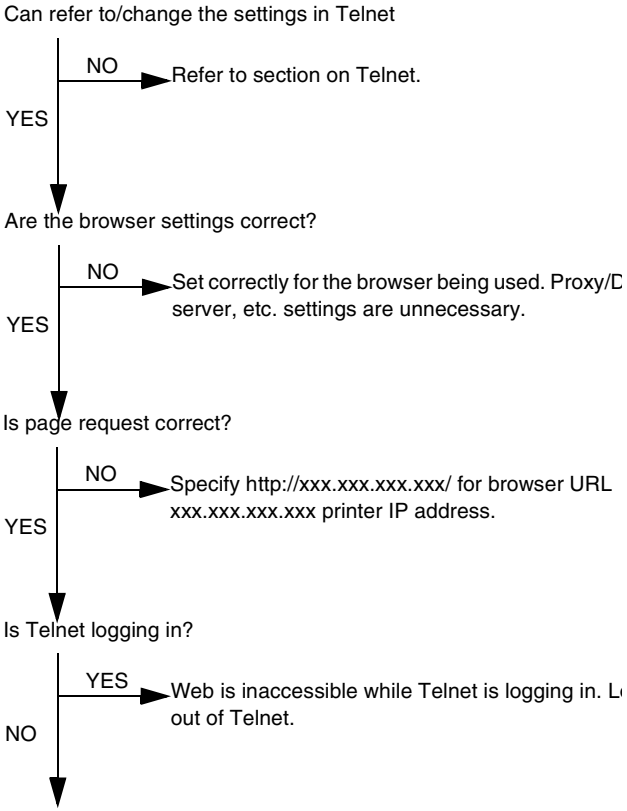

Are IP address and subnet mask set correctly for printer and host?
NO
YES
Set to Auto or Ether 2
When router exists between host and printer, is router setting correct?
NO
YES
Set router correctly or access printer from a host which does not go through router.
When router exists between host and printer, is default gateway setting correct?
NO
YES
Set default gateway correctly for both printer and host.
Less than two Telnets are connected simultaneously.
NO
YES
Close a Telenet session

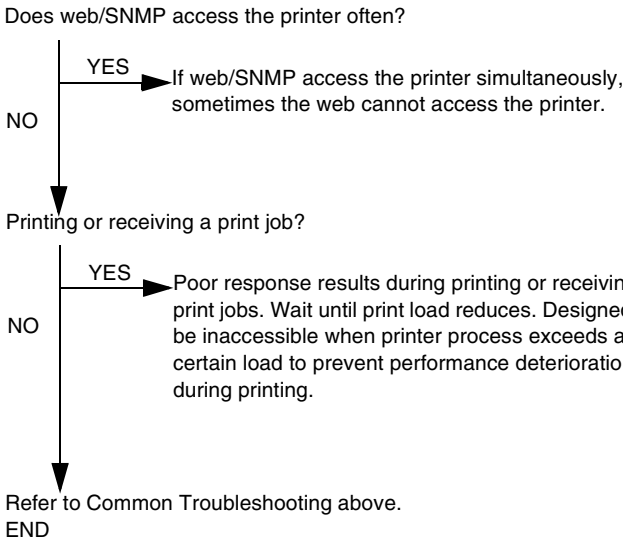

Is access to the printer requested simultaneously from Web and SNMP (OkiView)?
YES
NO
This printer cannot be accessed from Telnet Web and SNMP simultaneously. MP access. No need to end View.
Is there excessive traffic or an abnormality occurred on the network?
YES
NO
Find the source of the problem and bring back to normal state.
Respond to PING?
YES
NO
Refer to Common Troubleshooting above.
Did you enter ROOT for login? If you specify ROOT, a password is required.
YES
Enter some other string other than ROOT for login.


Printing or receiving a print job?
YES
NO
Sometimes the response is not good when jobs being printed or received.
Is item(s) set with SET XX actually reflected?
NO
YES
Telnet actually reflects the item that you have se after you log out of Telnet.
END

Cannot refer to the printer settings or change them using Web.

1. Check if you can refer to or change the printer settings using Telnet.
2. Check the settings of the browser to be used and accompanying server side settings.




Does web/SNMP access the printer often?
YES
If web/SNMP access the printer simultaneously,
sometimes the web cannot access the printer.
NO
Printing or receiving a print job?
YES
Poor response results during printing or receivin
print jobs. Wait until print load reduces. Designe
be inaccessible when printer process exceeds a
certain load to prevent performance deterioratio
during printing.
NO
Refer to Common Troubleshooting above.
END

Does not display printer status correctly on Web.

Change the browser setting from “Load from cache” to “Load every time”.

If you access the menu page displayed on the left on Web, sometimes the entire page becomes the menu page.

On several browsers, sometimes the above display occurs, depending on how you click (a bit of dragging). (Browser function.)

Cannot print with LPR.

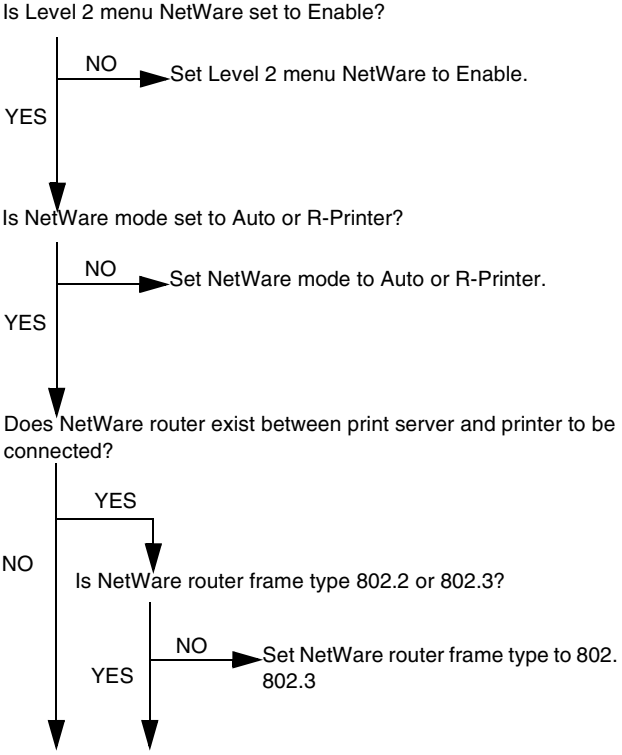
1. Check if you can print with FTP.
2. Check it by consulting the manual suitable to the LPR environment used.

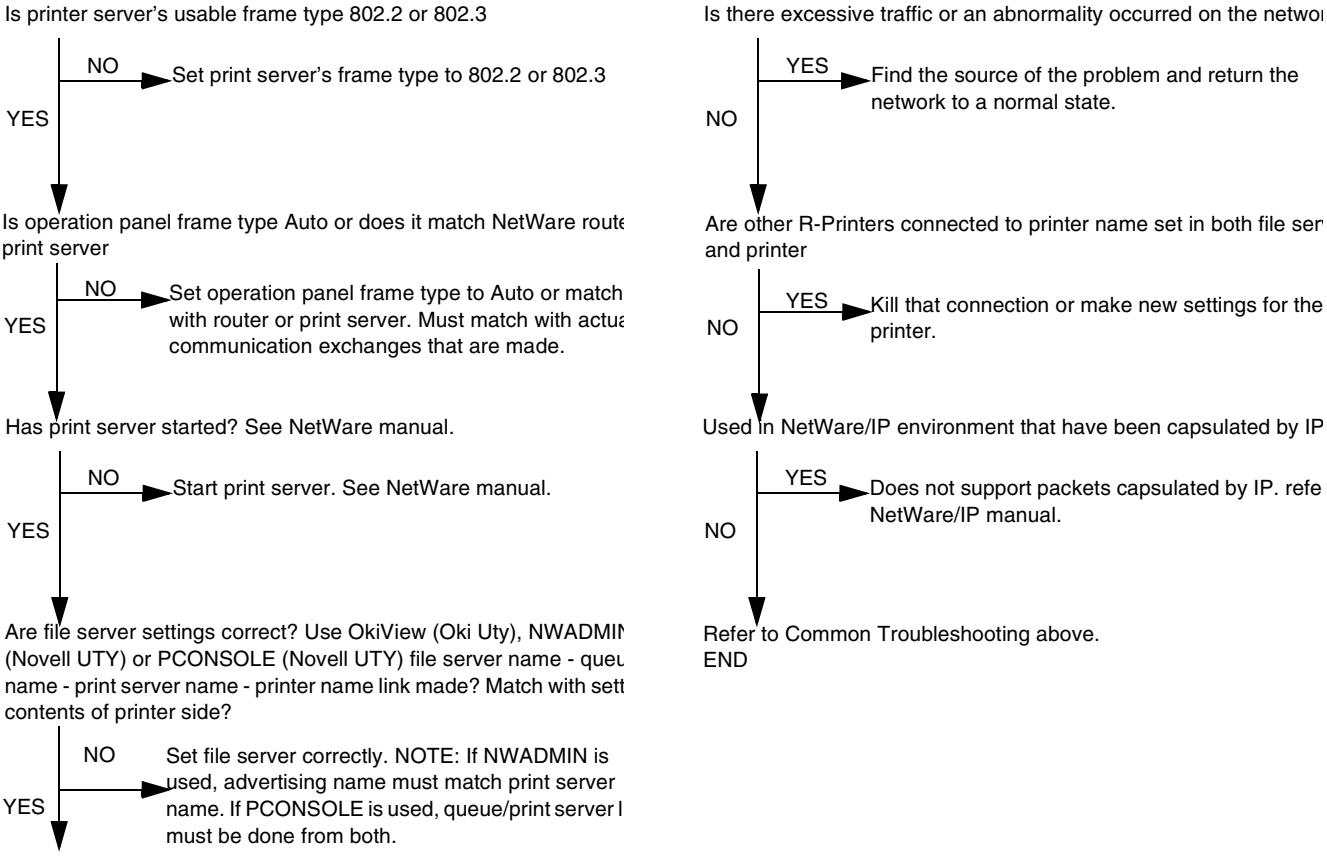
Print data is ejected in the middle of the page.

Check if Job Time Out value is small. Recommended value: 90 sec/ refer to the manual of the printer's main unit.

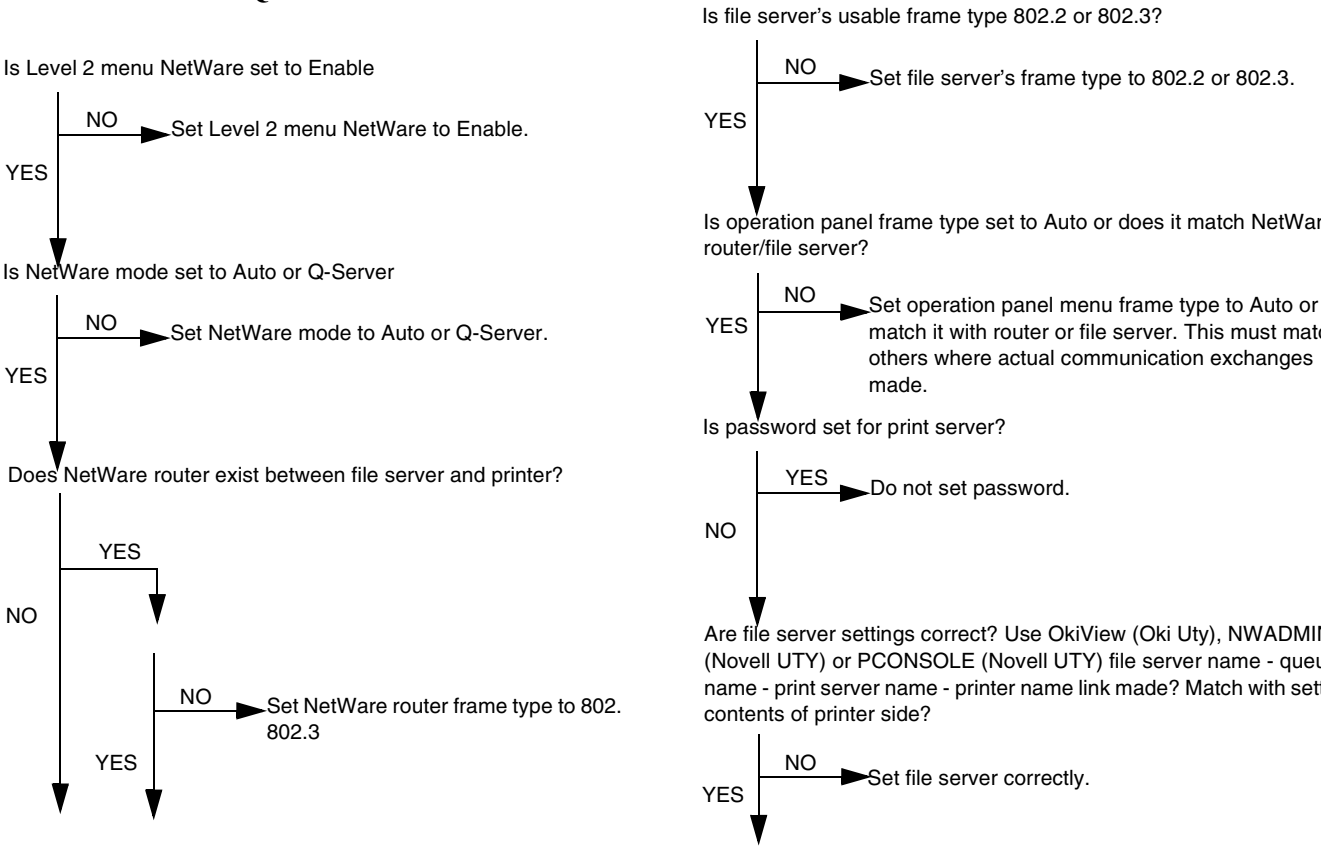
NetWare related

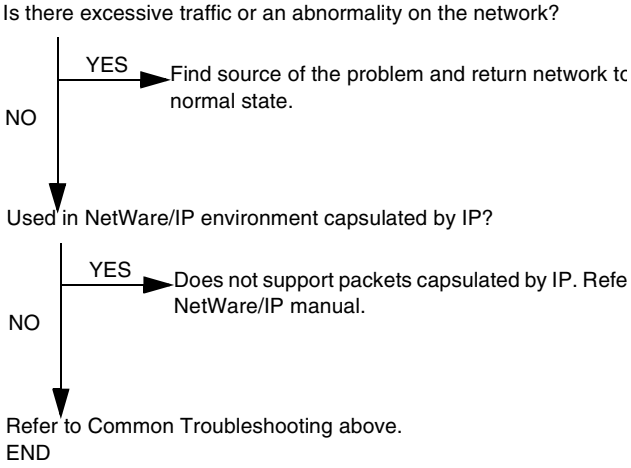
Cannot connect in R-Printer Mode.


Is Level 2 menu NetWare set to Enable?
NO
Set Level 2 menu NetWare to Enable.
YES
Is NetWare mode set to Auto or R-Printer?
NO
Set NetWare mode to Auto or R-Printer.
YES
Does NetWare router exist between print server and printer to be connected?
YES
NO
Is NetWare router frame type 802.2 or 802.3?
NO
Set NetWare router frame type to 802.
802.3
YES


Is printer server's usable frame type 802.2 or 802.3
NO
Set print server's frame type to 802.2 or 802.3
YES
Is operation panel frame type Auto or does it match NetWare route
print server
NO
Set operation panel frame type to Auto or match
with router or print server. Must match with actua
communication exchanges that are made.
YES
Has print server started? See NetWare manual.
NO
Start print server. See NetWare manual.
YES
Are file server settings correct? Use OkiView (Oki Uty), NWADMI
(Novell UTY) or PCONSOLE (Novell UTY) file server name - queu
name - print server name - printer name link made? Match with sett
contents of printer side?
NO
Set file server correctly. NOTE: If NWADMIN is
used, advertising name must match print server
name. If PCONSOLE is used, queue/print server l
must be done from both.
YES
Is there excessive traffic or an abnormality occurred on the netwo
YES
Find the source of the problem and return the
network to a normal state.
NO
Are other R-Printers connected to printer name set in both file ser
and printer
YES
Kill that connection or make new settings for the
printer.
NO
Used in NetWare/IP environment that have been capsulated by IP
YES
Does not support packets capsulated by IP. refe
NetWare/IP manual.
NO
Refer to Common Troubleshooting above.
END

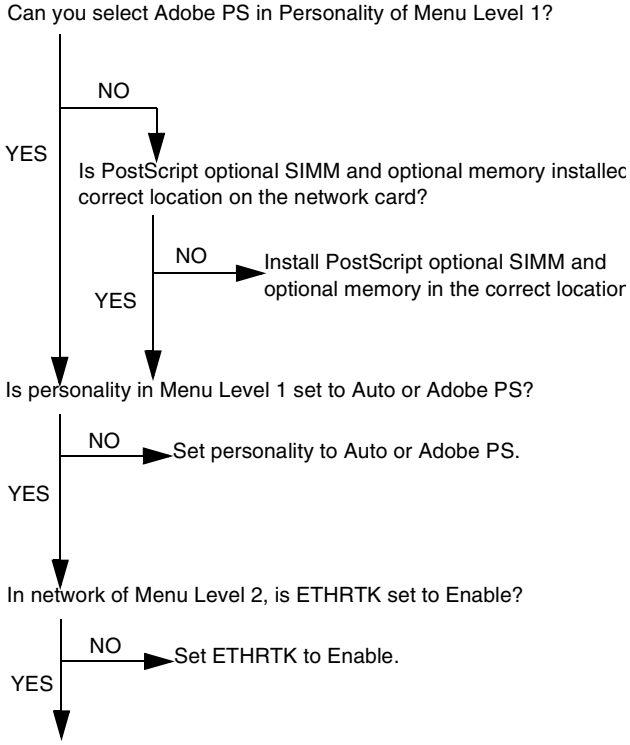
Cannot connect in Q-Server Mode.

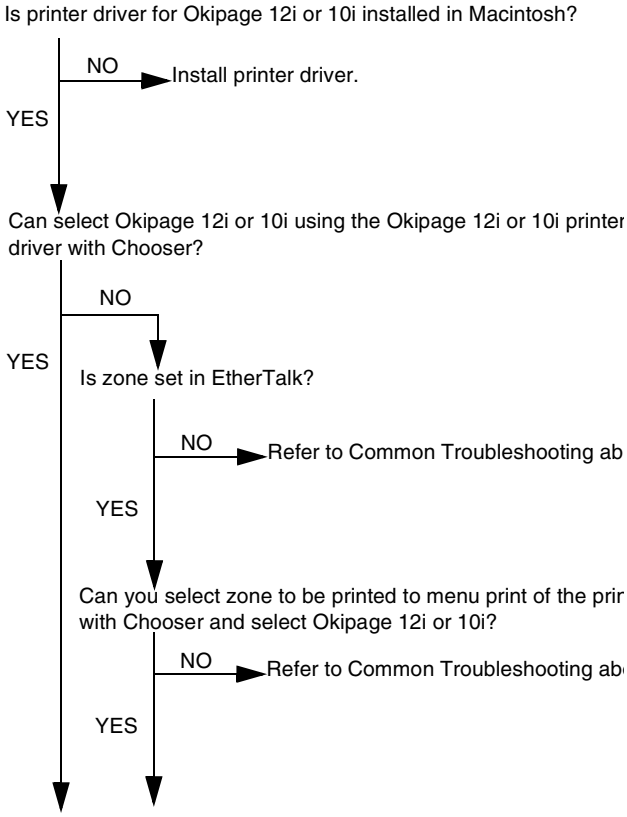

Is Level 2 menu NetWare set to Enable
NO
Set Level 2 menu NetWare to Enable.
YES
Is NetWare mode set to Auto or Q-Server
NO
Set NetWare mode to Auto or Q-Server.
YES
Does NetWare router exist between file server and printer?
YES
NO
NO
Set NetWare router frame type to 802.
802.3
YES
Is file server's usable frame type 802.2 or 802.3?
NO
Set file server's frame type to 802.2 or 802.3.
YES
Is operation panel frame type set to Auto or does it match NetWar
router/file server?
NO
Set operation panel menu frame type to Auto or
match it with router or file server. This must mat
others where actual communication exchanges
made.
YES
Is password set for print server?
YES
Do not set password.
NO
Are file server settings correct? Use OkiView (Oki Uty), NWADMI
(Novell UTY) or PCONSOLE (Novell UTY) file server name - queu
name - print server name - printer name link made? Match with set
contents of printer side?
NO
Set file server correctly.
YES

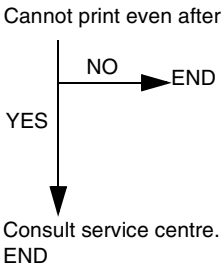

Is there excessive traffic or an abnormality on the network?
YES
Find source of the problem and return network tc
normal state.
NO
Used in NetWare/IP environment capsulated by IP?
YES
Does not support packets capsulated by IP. Refe
NetWare/IP manual.
NO
Refer to Common Troubleshooting above.
END

EtherTalk related

Cannot print from Macintosh.

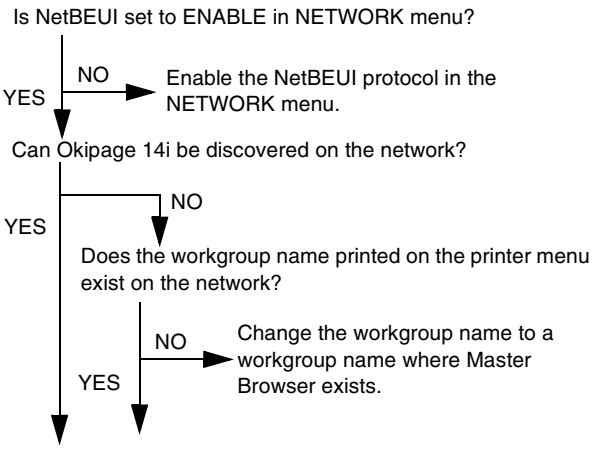

Can you select Adobe PS in Personality of Menu Level 1?
NO
YES
Is PostScript optional SIMM and optional memory installec
correct location on the network card?
NO
Install PostScript optional SIMM and
optional memory in the correct locatior
YES
Is personality in Menu Level 1 set to Auto or Adobe PS?
NO
Set personality to Auto or Adobe PS.
YES
In network of Menu Level 2, is ETHRTK set to Enable?
NO
Set ETHRTK to Enable.
YES

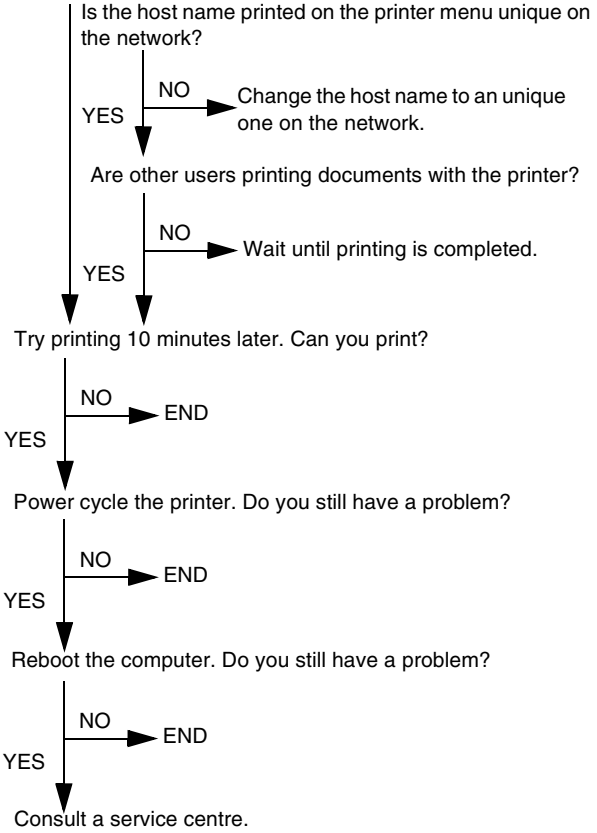

Is printer driver for Okipage 12i or 10i installed in Macintosh?
NO
Install printer driver.
YES
Can select Okipage 12i or 10i using the Okipage 12i or 10i printer driver with Chooser?
NO
YES
Is zone set in EtherTalk?
NO
Refer to Common Troubleshooting ab
YES
Can you select zone to be printed to menu print of the prir with Chooser and select Okipage 12i or 10i?
NO
Refer to Common Troubleshooting ab
YES



NetBEUI related

Cannot print with NetBEUI


Is NetBEUI set to ENABLE in NETWORK menu?
NO
Enable the NetBEUI protocol in the NETWORK menu.
YES
Can Okipage 14i be discovered on the network?
NO
YES
Does the workgroup name printed on the printer menu exist on the network?
NO
Change the workgroup name to a workgroup name where Master Browser exists.
YES



Important points

Common

- To set IP address, you must consult the network administrator. If the same IP address is used by multiple machines, a serious error will result on network.
- It will take about 30 seconds to change the settings of this network card.

When setting in NetWare3.x environment

- You must set Printer Types of Remote Printer to “Remote Other/Unknown”. See “Setting up remote printer mode” on page 14.
- To use the Okipage 14i printer in Queue Server Mode, do not use the password for the print server. See “Setting queue server mode” on page 16.
- This Network card does not support the Banner Sheet in the Queue Server Mode. See “Setting queue server mode” on page 16.

- If the printer connection cutoff message is issued very often in the Remote Printer Mode, change the notification settings with PCONSOLE. See “Message display in remote printer mode” on page 17.

When setting in NetWare 4.x and 5 environment

- You must set Printer Types of Remote Printer to “Remote Other/Unknown”. See “Setting up remote printer” on page 18.
- Set the printer number of Remote Printer to any number 0 through 15. See “Setting up remote printer” on page 18.
- To use the Okipage 14i printer in Queue Server Mode, do not use the password for the print server. See “Setting up remote printer” on page 18.
- Match the print server name and the advertising name. See “Setting up the remote printer using the NetWare administrator utility” on page 18.
- Set up the service printer and assign the print server and the print queue, without fail. See “Setting up the remote printer using PCONSOLE (except NetWare 5)” on page 22.
- This Network card does not support the Banner Sheet in the Queue Server Mode. See “Setting up queue server mode” on page 25.
- If the printer connection cutoff message is issued very often in the Remote Printer Mode, change the notification settings with PCONSOLE (except NetWare 5). See “Message display in remote printer mode” on page 27.

When setting DHCP server environment

- We strongly recommend that IP address be used fixed in DHCP server environment. See “IP address setting in DHCP server environment” on page 29.
- Do not set both DHCP and RARP to ENABLE at the same time. See “IP address setting in DHCP server environment” on page 29.

When printing in Macintosh environment

- Set Level2 menu PERSONALITY to “AUTO” or “AdobePS”.

When using web server

- Some of the web browsers do not support the frame display, depending on the versions. See “Web” on page 39.
- You cannot connect Web and Telnet at the same time. See “Web” on page 39.
- You can change the Frame Type of this Network card from web browser, but certain network functions will become disabled depending on the setup. See “Web” on page 39.

When using Telnet

- You can connect up to two Telnets at the same time. See “Telnet” on page 44.
- You cannot connect Telnet and Web at the same time. See “Telnet” on page 44.
- The execution of the reset command affects the use of this net-work card significantly. Therefore, exercise caution in executing this command. See “Items that can be set” on page 44.

When setting Network menu in the printer

- You must make settings when the printer is not receiving print data. See “Printer settings” on page 58.

When using Oki LPR Utility

- You can register a maximum of 10 printers. See “Registering LPR printer” on page 70.

Chapter 7 - Cautionary Notes

About SELFTEST (Loop Back Test)

The SELFTEST menu of NETMNT, which is located in NETWORK of *Menu2* on the printer, is for inspecting the hardware of this network card at factory shipping.

General users must not execute SELFTEST. If the general user executes this SELFTEST, NG is displayed which is the default and to the specification for the network card.

If by mistake you execute SELFTEST, set the printer to OFF-LINE and reset it by holding the *Reset* button for 2 seconds or longer, or turn the power to the printer off and on again.

Network enable/disable setting

To set NETWORK items in MENU1 on the printer to DISABLE, you must make sure that the printer is not receiving print data.

If you change the NETWORK to DISABLE while the printer is receiving print data, it will cause printer or network problems.

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